General Notes that apply to all Platforms

Purpose of the Linux Hardware Matrix

The HP Workstations Linux Hardware Matrix provides per-platform advisory information about the functionality of HP workstation desktops, and the hardware components applicable to them, under several Linux distributions such as Red Hat Enterprise Linux (RHEL) and SUSE Linux Enterprise Desktop (SLED).

The Linux Hardware Matrix does not represent the issue support that you can expect from the Linux OS distributor. Please see the section below entitled "Important Information about OS Support."

About Linux OS Release Streams

As technology advances, newer releases of Linux distributions are more likely to have sufficient support for new hardware (processors and chipset architectures, storage controllers, etc.) than are older releases in the same streams.

The Linux Hardware Matrix shows information for releases that provide reasonably complete functionality for the platform and components, using drivers that are part of the distribution, unless noted to the contrary. The releases shown are typically the most current at the time that the platform was launched, but in some cases an already-existing release may provide good functionality. It is advisable to apply the distributor's most recent maintenance updates in order to get defect and security fixes (and in some cases, additional hardware enablement).

Important Information about OS Support

Distributors of enterprise-class Linux releases have certification processes that verify that a particular platform is functional and supportable. Most distributors will not support issues that arise on non-certified platforms. Therefore, it is important that you consult the vendor's certification website to verify certification for the OS release you are planning to use. Here are the sites for distributions covered in this document:

SUSE: https://www.suse.com/yessearch/Search.jsp

Red Hat: http://hardware.redhat.com

How to Use this Document

Please remember that the general notes on this page apply to all platforms in this Linux Hardware Matrix. If you print out platform pages, be sure to print this one also.

The platform-specific pages in this matrix are formatted as follows:

- * The platform is identified at the top of the page. For some platforms, the original releases on which the platform was certified by Linux distributors are noted. However, the Linux vendor certification site is always the authoritative source.
- * Built-in (onboard) and optional components are listed in the left-hand column. This set of components initially represents what was listed as available at the time the platform was launched. The list may be updated periodically as new options are added. However, it is not an authoritative list of product options. Please see the platform specification (QuickSpecs), available at www.hp.com, for the most up-to-date list.
- * One or more OS distribution columns are shown to the right of the components column. The headers of these columns identify the OSes for which functionality has been evaluated by HP. In some cases, these columns have been updated since the platform was launched. Component functionality is expected to be retained later in the same OS release stream, and some missing functionality might be added. For example, a component might be usable in RHEL 6.1 "or later," implying RHEL 6.2, 6.3, ... (See the note above entitled "About Linux OS Release Streams.")
- * A solid circle in a cell represents usable functionality with the combination of OS release shown in the column header and the component, using drivers that are part of the distribution.
- * A blank cell represents absence of functionality with default drivers. This does not mean that the component is necessarily uselessyou may have to download and possibly build a driver from another source, such as the component manufacturer's website or an open source community site. Or, as mentioned, the support might have been added in a subsequent release in the same OS stream, or an available update.
- * A number represents a reference to a footnote. Footnotes are located at the bottom of the page.

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Fourth Edition: June 2014 First Edition: December 2013

HP Z1 G2 All-in-one Workstation

Originally certified with SLED 11 SP3 (x86 64) and RHEL 6.5 (x86 64)

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| This page is not complete without the Central Not | , , , | |
|--|---------------------|-----------------------------|
| Product Items/Features | SLED11 SP3 or later | RHEL 6.5 or later (x86 64) |
| (Blank box or unlisted -> component is NOT functional w/ as-is OS) | (x86 64) | KITCE 0.5 OF Tatel (X00_04) |
| HP Workstation Base System | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • |
| Base system with Touch capability (see footnote 13) | | |
| HP Localization Kit | 1 | 1 |
| Software | | |
| Remote Graphics Software | | |
| All Supported Processors | | |
| All Supported Processors (single-CPU configs) | • | • |
| Hyperthreading | • | • |
| Graphics Card (Video Card) (See footnote 2) | | |
| Intel Onboard Graphics | 8 | 8 |
| NVIDIA Quadro K610M | 10 | 10 |
| NVIDIA Quadro K2100M | 10 | 10 |
| NVIDIA Quadro K3100M | 10 | 10 |
| NVIDIA Quadro K4100M | 10 | 10 |
| System RAM | | |
| Minimum (GB) | 2GB | 2GB |
| Maximum (GB) | 32GB | 32GB |
| Hard Disks (See footnote 5) | • | _ |
| All Supported Solid State Drives | • | • |
| All Supported SATA Disk Drives less than 3TB | • | • |
| Supported SATA Disk Drives 3TB and larger | 12 | 12 |
| All Supported USB Drive Keys | • | • |
| Network Cards (no modem support) | | |
| Wireless LAN (Intel Centrino 7260) | • | • |
| Onboard Components | | |
| Wired LAN - Intel i217LM Gigabit Ethernet | • | • |
| Integrated Media Card Reader | • | • |
| Onboard Audio (IDT 92HD68 codec) | 9 | 9 |
| Onboard SATA RAID | 4 | 4 |
| Add Ons | | |
| Thunderbolt Module (see footnote 11) | | |
| Removable CD/DVD Media | | |
| HP DVD-ROM Drive | • | • |
| HP DVD RW Supermulti Drive | • | • |
| HP BD-RE (Blu-Ray writer) | • | • |
| Input/Output Devices (no spaceball support) | | |
| HP Laser Scroll Mouse, USB | • | • |
| HP Standard Keyboard, USB | • | • |
| HP Wireless AIO Keyboard/Mouse | • | • |
| TPM Module/ Smart Card | | |
| HP Printers | 6 | 6 |
| All Supported Monitors | • | • |
| | | |

footnote 1 - Typical Linux distributions support many possible localizations. If you're installing the OS yourself, you can make selections for language and keyboard layout during that process. For a pre-loaded Linux OS, similar choices can be made during the "firstboot" process. In some cases, extra font packages may be available.

footnote 2 - Get the latest drivers: "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" iso images by going to http://www.hp.com/support, selecting your language, choosing "Drivers and Downloads", and searching for product "z1 g2" (with the blank space character in the string). HP Workstations can be ordered with a variety of localization options that may vary by platform.

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on RHEL 5 Desktop or later and SLED11 or later.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z1 G2 all-in-one can support up to two 2.5-inch SATA drives or one 3.5-inch SATA drive. It can also support mSATA devices in the mPCle/mSATA slots.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

footnote 8 - Depending on the OS release, the kernel DRM and X.org "intel" driver may not support the Z1 G2 built-in display correctly.

footnote 9 - Depending on the OS release, the kernel ALSA driver may enable all audio functions; some earlier kernels enable headphones but not speakers.

footnote 10 - For NVIDIA Quadro graphics on Linux, HP requires NVIDIA driver versions 319.60 or later for proper Z1 G2 built-in display support.

footnote 11 - Newer Linux kernels may provide device functionality through the Thunderbolt module. Such kernels are likely to be available in leading-edge distributions, but inclusion of the support with any Enterprise Linux distribution is at the distributor's discretion. For example, neither SLED 11 SP3 nor RHEL 6.5 incorporates significant Thunderbolt support.

footnote 12 - In general, single drives or volumes larger than 2.2 TB can only be fully accessed using GPT formatting. OSes listed can format GPT for the boot drive or volume but may require installation of UEFI boot support, and can access GPT-formatted data volumes.

footnote 13 - Basic Linux Touch support requires very recent kernel (recommended 3.10 or greater) and X server versions for proper USB HID recognition and multi-touch event translation. Robust gesture libraries, touch-aware display managers, and touch-capable applications will emerge with time for desktop distributions (but not at this time for enterprise releases of SLED 11 SP3 or RHEL 6.5).

HP Z230 SFF Workstation

Originally certified with SLED 11 SP3 (x86_64) and RHEL 6.5 (x86_64).

This page is not complete without the General Notes (first page of the matrix).

| Product Items/Features | SLED11 SP3 or later | RHEL 6.5 or later |
|--|---------------------|-------------------|
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | (x86 64) | (x86 64) |
| HP Workstation Base System | (X00 04) | (X80 64) |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | | • |
| Localization Kit (See footnote 1) | | <u> </u> |
| HP Localization Kit | • | • |
| Software | <u> </u> | • |
| Remote Graphics Software | | |
| All Supported Processors | | |
| All Supported Processors (single-CPU configs) | | • |
| Hyperthreading | • | • |
| Firmware Features | | - |
| CSM (Compatibility Support Module) Mode | | • |
| 2.1 UEFI Mode | • | • |
| Intel AMT remote manageability | i i | |
| Graphics Card (Video Card) (See footnote 2) | | |
| No Graphics Card | • | • |
| Intel Onboard Graphics | 8 | 8 |
| NVIDIA NVS 310 | | • |
| NVIDIA NVS 315 | • | • |
| | · | - |
| NVIDIA Quadro 410 | • | • |
| NVIDIA NVS 510 | • | • |
| NVIDIA Quadro K600 | • | • |
| AMD FirePro v3900 | • | • |
| System RAM | | |
| Minimum (GB) | 2GB | 2GB |
| Maximum (GB) | 32GB | 32GB |
| Hard Disks | | |
| SATA Controllers | 5 | 5 |
| | J J | |
| All Supported SAS Disk Drives | | |
| All Supported SSD Disk Drives All Supported SATA Disk Drives less than 3TB | • | • |
| All Supported SATA Disk Drives less than 31B All Supported SATA Disk Drives 3TB and larger | 7 | 7 |
| All Supported USB Drive Keys | • | • |
| | | |
| Z Turbo Drive PCle-attached storage | 10 | 10 |
| Network Cards (no modem support) | | |
| Intel i210-T1 GbE PCIe NIC | • | • |
| Wireless Intel 6205 802.110 a/b/g/n PCiex1 NIC | 11 | • |
| HP X520 10GbE Dual Port Adapter (and SFP+ SR Transceiver) | • | • |
| Onboard Components | | |
| Onboard LAN - Intel i217LM Gigabit Ethernet Onboard Audio | • | • |
| Onboard SATA RAID | • 4 | 4 |
| Onboard USB 3.0 | • | • |
| Add Ons | | • |
| IEEE 1394B PCI-E Card | | • |
| TILL I INTM DOLE OF LOCAL AND | • | • |
| Thunderbolt [™] PCI-E Card (See footnote 9) Removable CD/DVD Media | | |
| | | |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW | • | • |
| HP BD-RE (Blu-Ray writer) | 3 3 | <u>3</u> 3 |
| Input/Output Devices (no spaceball support) | | <u> </u> |
| HP Mouse, PS/2 or USB | | • |
| HP Standard Keyboard, USB/PS2 | • | • |
| TPM Module/ Smart Card | <u> </u> | • |
| HP Media Card Reader | | |
| HP Printers | 6 | 6 |
| All Supported Monitors | 0 | • |
| All Supported Monitors | , , | • |

footnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as pre-localized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes preloaded on the system.

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z230SFF; select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality,

please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives. Software RAID is available in most Linux OSes.

footnote 5 - The Z230 SFF can support up to 2 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - In general, single drives or volumes larger than 2.2TB can only be fully accessed using GPT formatting. Newer Linux OSes can format GPT for the boot drive or volume but may require installation of UEFI boot support. OSes listed can all access GPT-formatted volumes.

footnote 8 - Depending on the OS release, the kernel DRM and X.org "Intel" driver may not support the Intel graphics correctly.

footnote 9 - Newer Linux kernels may provide device functionality through the Thunderbolt module. Such kernels are likely to be available in leading-edge distributions, but inclusion of the support with any Enterprise Linux distribution is at the distributor's discretion. For example, neither SLED 11 SP3 nor RHEL 6.5 incorporates significant Thunderbolt support.

footnote 10 - The Z Turbo Drive PCle-attached storage device has its own controller and is supported by the standard ahci kernel module in supported OSes.

footnote 11 - Support for this device is available in updates from SUSE or from the HP Installer Kit for Linux disk image (see footnote 2).

HP Z230 Tower Workstation

Originally certified with SLED 11 SP3 (x86_64) and RHEL 6.5 (x86_64).

This page is not complete without the General Notes (first page of the matrix).

| Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) HP Workstation Base System Base system includes: Chassis, System Board, USB, Power Supply, etc. Localization Kit (See footnote 1) HP Localization Kit | SLED11 SP3 or later (x86 64) | RHEL 6.5 or later (x86 64) |
|---|---------------------------------|-------------------------------|
| HP Workstation Base System Base System includes: Chassis, System Board, USB, Power Supply, etc. Localization Kit (See footnote 1) HP Localization Kit | | (x86 64) |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. Localization Kit (See footnote 1) HP Localization Kit | | |
| Localization Kit (See footnote 1) HP Localization Kit | | |
| HP Localization Kit | • | • |
| | + | |
| I California | <u> </u> | • |
| Software Remote Graphics Software | 1 | |
| All Supported Processors | 1 | |
| All Supported Processors (single-CPU configs) | | • |
| Hyperthreading | • | • |
| Firmware Features | | - |
| CSM (Compatibility Support Module) Mode | | • |
| 2.1 UEFI Mode | • | • |
| Intel AMT remote manageability | | |
| Graphics Card (Video Card) (See footnote 2) | | |
| No Graphics Card | • | • |
| Intel Onboard Graphics | 8 | 8 |
| NVIDIA NVS 310 | • | • |
| NVIDIA NVS 315 | • | • |
| NVIDIA Quadro 410 | | • |
| NVIDIA NVS 510 | • | • |
| NVIDIA Quadro K600 | 1 | |
| | • | • |
| NVIDIA Quadro K2000 | • | • |
| NVIDIA Quadro K4000 | • | • |
| AMD FirePro v3900 | • | • |
| AMD FirePro W7000 | • | • |
| System RAM | | |
| Minimum (GB) | 2GB | 2GB |
| Maximum (GB) | 32GB | 32GB |
| Hard Disks | | |
| SATA Controllers | 5 | 5 |
| All Supported SAS Disk Drives | | |
| All Supported SSD Disk Drives | • | • |
| All Supported SATA Disk Drives less than 3TB | • | • |
| All Supported SATA Disk Drives 3TB and larger | 7 | 7 |
| All Supported USB Drive Keys | • | • |
| Z Turbo Drive PCIe-attached storage | 10 | 10 |
| Network Cards (no modem support) | | |
| Intel i210-T1 GbE PCIe NIC | • | • |
| Wireless Intel 6205 802.110 a/b/g/n PCiex1 NIC | 11 | • |
| HP X520 10GbE Dual Port Adapter (and SFP+ SR Transceiver) | • • | • |
| Onboard Components Onboard LAN - Intel i217LM Gigabit Ethernet | | • |
| Onboard Audio | • | • |
| Onboard SATA RAID | 4 | 4 |
| Onboard USB 3.0 | • | • |
| Add Ons | - | |
| IEEE 1394B PCI-E Card | | • |
| Creative Recon3D PCIe Audio Card | - | - |
| Thunderbolt PCI-E Card (See footnote 9) | 1 | |
| Removable CD/DVD Media | | |
| HP 16x DVD-ROM Drive | • | • |
| HP 16x Super Multi DVD+RW | 3 | 3 |
| HP BD-RE (Blu-Ray writer) | 3 | 3 |
| Input/Output Devices (no spaceball support) | | |
| HP Mouse, PS/2 or USB | • | • |
| HP Standard Keyboard, USB/PS2 | • • | • |
| TPM Module/ Smart Card | + | |
| HP Media Card Reader | • | • |
| HP Printers | 6 | <u>6</u> |
| All Supported Monitors | • | • |

footnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as pre-localized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes preloaded on the system.

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z230SFF; select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality,

please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives. Software RAID is available in most Linux OSes.

footnote 5 - The Z230 Tower can support up to 3 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - In general, single drives or volumes larger than 2.2TB can only be fully accessed using GPT formatting. Newer Linux OSes can format GPT for the boot drive or volume but may require installation of UEFI boot support. OSes listed can all access GPT-formatted volumes.

footnote 8 - Depending on the OS release, the kernel DRM and X.org "Intel" driver may not support the Intel graphics correctly.

footnote 9 - Newer Linux kernels may provide device functionality through the Thunderbolt module. Such kernels are likely to be available in leading-edge distributions, but inclusion of the support with any Enterprise Linux distribution is at the distributor's discretion. For example, neither SLED 11 SP3 nor RHEL 6.5 incorporates significant Thunderbolt support.

footnote 10 - The Z Turbo Drive PCle-attached storage device has its own controller and is supported by the standard ahci kernel module in supported OSes.

footnote 11 - Support for this device is available in updates from SUSE or from the HP Installer Kit for Linux disk image (see footnote 2).

| Linux Hardware Matrix for HP | Workstations | | |
|--|----------------------------------|----------------------------------|---------------------------------|
| HP Z420 Workstatic | on | | |
| This page is not complete without the General N | otes (first page of the r | matrix). | |
| Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) | RHEL DT 5.8 or later (x86 64) | RHEL WS 6.2 or later (x86 64) | SLED11 SP2 or later (x86 64) |
| HP Workstation Base System | (200 04) | (800 04) | later (XOO 04) |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | Ι. | | |
| Localization Kit (See footnote 1) | | | |
| HP Localization Kit Software | | • | • |
| Remote Graphics Software All Supported Processors | | | |
| All Supported Processors | 9 | 9 | • |
| Hyperthreading Firmware features | • | • | • |
| CSM (Compatibility Support Module) Mode 2.1 UEFI Mode | • | : | • |
| Intel AMT remote manageability | | • | • |
| Graphics Card (Video Card) No Graphics Card | 1 . | | |
| NVIDIA NVS 300 | • | • | • |
| NVIDIA NVS 310 | • | • | • |
| NVIDIA NVS 315 NVIDIA Quadro 410 | • | • | • |
| NVIDIA Quadro 410 NVIDIA Quadro NVS 450 | : | | • |
| NVIDIA NVS 510 | • | • | • |
| NVIDIA Quadro 600 | • | • | • |
| NVIDIA Quadro 2000 NVIDIA Quadro 4000 | : | : | • |
| NVIDIA Quadro 5000 | • | • | • |
| NVIDIA Quadro 6000 NVIDIA Tesla C2075 | : | : | • |
| NVIDIA Quadro K600 | • | • | · |
| NVIDIA Quadro K2000 NVIDIA Quadro K4000 | : | : | • |
| NVIDIA Quadro K5000 | • | • | • |
| NVIDIA Quadro K6000 NVIDIA Tesla K20C | 10 | 10 | 10 |
| NVIDIA Tesia K40 | 10 | 10 | 10 |
| AMD 2270 PCIe AMD v3900 PCIe | : | : | • |
| AMD v4900 PCIe | • | • | • |
| AMD v5900 PCIe AMD v7900 PCIe | : | : | • |
| AMD w7000 System RAM | • | • | • |
| Minimum (GB) | 2GB | 2GB | 2GB |
| Maximum (GB) Hard Disks | 64GB | 64GB | 64GB |
| All Supported SAS Disk Drives | 5 | 5 | 5 |
| All Supported SSD Disk Drives All Supported SATA Disk Drives less than 3TB | <u> </u> | <u> </u> | • |
| All Supported SATA Disk Drives 3TB and larger | 7 | 7 | 7 |
| All Supported USB Drive Keys Z Turbo Drive PCle-attached storage | 13 | 13 | 13 |
| Network Cards (no modem support) | | | |
| Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI | : | : | • |
| HP NC360T and 361T PCIe Dual Port Gigabit NIC | 2 | 2 | 2 |
| HP X520 10GbE Dual Port Adapter (and SFP+ SR Transceiver) Intel i210-T1 GbE PCIe NIC | | • | • |
| Wireless Intel 6205 802.110 a/b/g/n PClex1 NIC | | | |
| Onboard Components Onboard LAN - Intel 52579LM Gigabit | • | • | • |
| Onboard SATA RAID Onboard SAS RAID | 5 | 5 5 | 5 |
| USB 3.0 Support | 5 8 | • | 5 • |
| Add Ons IEEE 1394B PCI-E Card | | | |
| LSI 9212-4i and LSI 9217-4i4e | 5 | 5 | 5 |
| LSI 9260-8i and 9270-8i Fusion ioFX 410GB PCle Accelerator | 2 12 | 2 12 | 2 12 |
| Thunderbolt PCI-E Card (See footnote 11) | 12 | 12 | 12 |
| Removable CD/DVD Media HP 16x DVD-ROM Drive | | | |
| HP 16x Super Multi DVD+RW | 4 | 4 | 4 |
| HP BD-RE (Blu-Ray writer) Input/Output Devices (no spaceball support) | • | • | • |
| HP 3-Button Mouse, PS/2 | • | • | • |
| HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB | : | : | • |
| HP Standard Keyboard, USB/PS2 | • | • | • |
| TPM Module/ Smart Card HP Media Card Reader | • | | • |
| HP Printers | 6 | 6 | 6 |
| All Supported Monitors | • | • | • |

flootnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as pre-localized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes preloaded on the system.

footnote 2 - May not be orderable integrated into systems. Order AMO (After Market Option) kit if that is the case.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5," "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SUSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/2420; select "download drivers and software."

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later, Red Hat EL WS 6 or later, and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 9212-4i and 9217-4i4e (RAID 0, 1, 10 SATA & SAS), and for the LSI 9260-8i and 9270-8i (RAID 0, 1, 5, 10 SATA & SAS). SATA RAID is now supported on AHCI ports(0,1,5,10) and SCU ports(0,1,5,10).

ootnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - In general, single drives or volumes larger than 2.2TB can only be fully accessed using GPT formatting. RHEL 6 and SLED 11 can format GPT for the boot drive or volume but may require installation of UEFI boot support. OSes listed can all access GPT-formatted volumes.

footnote 8 - USB 3.0 ports are completely non-functional under RHEL 5 due to absence of a driver for the port controller.

footnote 9 - This platform was originally certified with Intel "Sandy Bridge" CPUs. The minimum versions of RHEL needed to use Intel "Ivy Bridge" CPUs are RHEL 5.9 and RHEL 6.4.

footnote 10 - The NVIDIA K20C and K40 are GPU-compute devices without graphics. The base OS will more or less ignore them. To make use of these devices, the proprietary driver must be installed. The minimum driver version for support of K40 is 319.72.

proprietary driver make the installed. The minimum driver version to support of R40's 518-72.

Totolonote 11 - Newer Linux kernels may provide device functionality through the Thunderbolt module. Such kernels are likely to be available in leading-edge distributions, but inclusion of the support with any Enterprise Linux distribution is at the distributor's discretion. For example, neither SLED 11 SP3 nor RHEL 6.5 incorporates significant Thunderbolt support.

footnote 12 - The Fusion ioFX device requires proprietary kernel module and utilities not included in any open-source Linux distribution. Customers who order the device from HP are entitled to downloads using their device serial number. Go to support.fusionio.com to get started.

footnote 13 - The Z Turbo Drive PCIe-attached storage device has its own controller and is supported by the standard ahci kernel module in supported OSes.

Linux Hardware Matrix for HP Workstations HP 7620 Workstation This page is not complete without the General Notes (first page of the matrix). RHEL DT 5.8 or later RHEL WS 6.2 or later SLED11 SP2 or Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) (x86 64) (x86 64) HP Workstation Base System Base system includes: Chassis, System Board, USB, Power Supply, etc. ocalization Kit (See footnote 1) Software Remote Graphics Software All Supported Processors Il Supported Processors (1 & 2 CPU configs) irmware features atibility Support Module) Mode .1 UEFI Mode Graphics Card (Video Card) NVIDIA NVS 300 NVIDIA NVS 310 NVIDIA Quadro 410 IVIDIA Quadro NVS 450 NVIDIA NVS 510 NVIDIA Quadro 2000 IVIDIA Quadro 6000 **NVIDIA Tesla C2075** NVIDIA Quadro K600 NVIDIA Quadro K2000 VIDIA Tesla K20C VIDIA Tesla K40 10 AMD v3900 PCIe AMD w7000 System RAM finimum (GB) 2GB 2GB 96GE Hard Disks upported SAS Disk Drives All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives less than 3TB All Supported SATA Disk Drives 3TB and larger All Supported SATA Disk Drives 3TB and larger I Supported USB Drive Keys Turbo Drive PCle-attached storage Network Cards (no modem support) NodeControl of Property of the Pro 1000 CT Gigabit PCI IP NC360T and 361T PCIe Dual Port Gigabit NIC IP X520 10GbE Dual Port Adapter (and SFP+ SR ntel i210-T1 GbE PCIe NIC Wireless Intel 6205 802.110 a/b/g/n PClex1 NIC Onboard Components Onboard LAN - Intel 52574L Gigabit Onboard LAN - Intel 52579LM Gigabit Onboard Audio Onboard SATA RAID FPM Module/ Smart Card USB 3.0 support Add Ons EEE 1394B PCI-E Card SI 9212-4i and LSI 9217-4i4e SI 9260-8i and 9270-8i usion ioFX 410GB PCIe Accelerato Removable CD/DVD Media HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW Drive IP Slot Load DVD +/-RW Drive

footnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as pre-localized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes

footnote 2 - May not be orderable integrated into systems. Order AMO (After Market Option) kit if that is the case

HP BD-RE (Blu-Ray writer)

nput/Output Devices (no spaceball support)

P 3-Button Mouse, PS P Scroll Mouse, PS/2 P Standard Keyboard, USB/PS2 PM Module/ Smart Card
IP Media Card Reader
IP Printers
III Supported Monitors

cotnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5," "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SUSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/2620; select download drivers and software."

ootnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 4 or later, Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 9212-4i and 9217-4i4e (RAID 0, 1, 10 SATA & SAS), and for the LSI 9260-8i and 9270-8i (RAID 0, 1, 5 SATA & SAS). SATA RAID is now supported on AHCI ports(0,1,5,10) and SCU ports(0,1,5,10).

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net footnote 7 - In general, single drives or volumes larger that 2.2TB can only be fully accessed using GPT formatting. RHEL 6 and SLED 11 can format GPT for the boot drive or volume but may require installation of UEFI boot support. OSes listed can all access GPT-formatted volumes.

potnote 8 - USB 3.0 ports are completely non-functional under RHEL 5 due to absence of a driver for the port controller

potnote 9 - This platform was originally certified with Intel "Sandy Bridge" CPUs. The minimum versions of RHEL needed to use Intel "Ivy Bridge" CPUs are RHEL 5.9

nd RHEL 6.4. ootnote 10 - The NVIDIA K20C and K40 are GPU-compute devices without graphics. The base OS will more or less ignore them. To make use of these devices, the

reprietary driver must be installed. The minimum driver version for support of k40 is 319.72.

botnote 11 - Newer Linux kernels may provide device functionality through the Thunderbolt module. Such kernels are likely to be available in leading-edge distribution is at the distribution. For example, neither SLED 11 SP3 nor RHEL 6.5 incorporates

contote 12 - The Fusion ioFX device requires proprietary kernel module and utilities not included in any open-source Linux distribution. Customers who order the device from HP are entitled to downloads using their device serial number. Go to support.fusionio.com to get started.

otnote 13 - The Z Turbo Drive PCIe-attached storage device has its own controller and is supported by the standard ahci kernel module in supported OSes

| Linux Hardware Matrix for HP W | orkstations | | |
|--|-------------------------|----------------------|----------------|
| HP Z820 Workstation | | | |
| THE ZOZO WORKStation | ' | | |
| This page is not complete without the General Not | es (first page of the r | natrix). | |
| Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) | RHEL DT 5.8 or later | RHEL WS 6.2 or later | SLED11 SP2 or |
| HP Workstation Base System | (x86 64) | (x86 64) | later (x86 64) |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | | | |
| Localization Kit (See footnote 1) | | • | • |
| HP Localization Kit Software | • | • | |
| Remote Graphics Software All Supported Processors | | | |
| All Supported Processors (1 & 2 CPU configs) | 9 | 9 | • |
| Hyperthreading Firmware features | | • | • |
| CSM (Compatibility Support Module) Mode 2.1 UEFI Mode | • | • | • |
| Intel AMT remote manageability | | | |
| Graphics Card (Video Card) No Graphics Card | • | • | • |
| NVIDIA NVS 300 | • | • | • |
| NVIDIA NVS 310 NVIDIA NVS 315 | : | • | • |
| NVIDIA Quadro 410 | · | • | |
| NVIDIA Quadro NVS 450 | 2 | 2 | 2 |
| NVIDIA NVS 510 NVIDIA Quadro 600 | <u>:</u> | • | • |
| NVIDIA Quadro 2000 | • | • | • |
| NVIDIA Quadro 4000 NVIDIA Quadro 5000 | ÷ | • | • |
| NVIDIA Quadro 6000 | · | : | : |
| NVIDIA Tesla C2075 NVIDIA Quadro K600 | : | • | • |
| NVIDIA Quadro K2000 | • | • | • |
| NVIDIA Quadro K4000 NVIDIA Quadro K5000 | : | • | • |
| NVIDIA Quadro K6000 | • | • | • |
| NVIDIA Tesia K20C NVIDIA Tesia K40 | 10 10 | 10 10 | 10 10 |
| AMD 2270 PCIe AMD v3900 PCIe | • | • | • |
| AMD v4900 PCIe | • | • | • |
| AMD v5900 PCIe AMD v7900 PCIe | • | • | • |
| AMD w7000 | • | • | • |
| System RAM Minimum (GB) | 2GB | 2GB | 2GB |
| Maximum (GB) Hard Disks | 512GB | 512GB | 512GB |
| All Supported SAS Disk Drives | • | • | • |
| All Supported SSD Disk Drives All Supported SATA Disk Drives less than 3TB | • | • | • |
| Support SATA Disk Drives 3TB and larger | 7 | 7 | 7 |
| All Supported USB Drive Keys Z Turbo Drive PCIe-attached storage | 13 | 13 | 13 |
| Network Cards (no modem support) | | | |
| Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI | : | : | : |
| HP NC360T and 361T PCIe Dual Port Gigabit NIC | 2 | 2 | 2 |
| HP X520 10GbE Dual Port Adapter (and SFP+ SR Transceiver) Intel i210-T1 GbE PCIe NIC | | • | • |
| Onboard Components Onboard LAN - Intel 52574L Gigabit | | • | • |
| Onboard LAN - Intel 52579LM Gigabit | | | |
| Onboard Audio Onboard SATA AHCI RAID | 5 | • 5 | 5 |
| Onboard SCU RAID | 5 | 5 | 5 |
| Onboard SAS RAID TPM Module/ Smart Card | 5 | 5 | 5 |
| USB 3.0 support | 8 | • | • |
| Add Ons IEEE 1394B PCI-E Card | I | • | • |
| LSI 9260-8i and 9270-8i | 5 | 5 | 5 |
| Fusion ioFX 410GB PCIe Accelerator Intel Xeon Phi 3120AIB Compute Processor | 12 | 12 14 | 12 14 |
| Thunderbolt PCI-E Card (See footnote 11) Removable CD/DVD Media | | | |
| HP 16x DVD-ROM Drive | | • | • |
| HP 16x Super Multi DVD+RW HP Slot Load DVD +/-RW Drive | 4 | 4 | 4 |
| HP BD-RE (Blu-Ray writer) | · | · | · |
| Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 | ı • | • | • |
| HP Scroll Mouse, PS/2 | • | • | • |
| HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS2 | : | • | : |
| HP Media Card Reader | • | • | • |
| HP Printers | 6 | 6 | 6 |

footnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as pre-localized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes preloaded on the system.

All Supported Monitors

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Option) kit.
footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5," "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SUSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z820; select 'download drivers and software."

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later, Red Hat EL WS 6 or later, and SLED11 or later. For drives tha have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 9212-4i and 9217-4i4e (RAID 0, 1, 10 SATA & SAS), and for the LSI 9260-8i and 9270-8i (RAID 0, 1, 5 SATA & SAS), and on-board LSI 2308 (RAID 0, 1, 10 SATA & SAS). SATA RAID is now supported on AHCl ports (0,1) and SCU ports(0,1,5,10).

footnote 7 - In general, single drives or volumes larger than 2.2 TB can only be fully accessed using GPT formatting. RHEL 6 and SLED 11 can format GPT for the boot drive or volume but may require UEFI boot support. OSes listed can all access GPT-formatted data volumes.

optnote 8 - USB 3.0 ports are completely non-functional under RHEL 5 due to absence of a driver for the port controller.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

te 9 - This platform was originally certified with Intel "Sandy Bridge" CPUs. The minimum versions of RHEL needed to use Intel "Ivy Bridge" CPUs are RHEL 5.9 and RHEL 6.4.

footnote 10 - The NVIDIA K20C and K40 are GPU-compute devices without graphics. The base OS will more or less ignore them. To make use of these devices, the

proprietary driver must be installed. The minimum driver version for support of K40 is 319.72.

tootnote 11 - Newer Limux kernels may provide device functionality through the Thunderbolt module. Such kernels are likely to be available in leading-edge distributions, but inclusion of the support with any Enterprise Limux distribution is at the distributor's discretion. For example, neither SLED 11 SP3 nor RHEL 6.5

corporates significant Thunderbolt support. ootnote 12 - The Fusion ioFX device requires proprietary kernel module and utilities not included in any open-source Linux distribution. Customers who order the Jevice from HP are entitled to downloads using their device serial number. Go to support.fusionio.com to get started.

ootnote 13 - The Z Turbo Drive PCIe-attached storage device has its own controller and is supported by the standard ahci kernel module in supported OSes.

footnote 14 - The Intel Xeon Phi coprocessor is available as an after-market accessory only. There is no in-box support in typical Linux distributions. Software must be obtained from Intel's site: https://software.intel.com/en-us/mic-developer. You can find more information on the HP Support Page for this platform under the RHE 6 or SLED 11 OSes. Look for the item entitled "Linux Driver Quick Start Guide for Intel Phi Coprocessors on HP Workstations."

Linux Hardware Matrix for HP Workstations HP Z1 All-in-one Workstation This page is not complete without the General Notes (first page of the matrix) Product Items/Features RHEL WS 6.2 or later (x86 SLED11 SP2 or later (Blank box or unlisted -> component is NOT functional w/ as-is OS) & x86 64) (x86 64) **HP Workstation Base System** Base system includes: Chassis, System Board, USB, Power Supply, etc. Localization Kit (See footnote 1) **HP Localization Kit** Software Remote Graphics Software **All Supported Processors** All Supported Processors (single-CPU configs) Hyperthreading Firmware Features CSM (Compatibility Support Module) Mode • • 2.1 UEFI Mode Intel AMT remote manageability Graphics Card (Video Card) (See footnote 2) Intel Onboard Graphics 8 8 NVIDIA Quadro Q500M 10 10 NVIDIA Quadro Q1000M 10 10 NVIDIA Quadro Q3000M 10 10 NVIDIA Quadro Q4000M 10 10 NVIDIA Quadro K3000M 11 11 NVIDIA Quadro K4000M 11 11 System RAM Minimum (GB) 2GB 2GB Maximum (GB) 32GB 32GB Hard Disks All Supported SSD Disk Drives All Supported SATA Disk Drives less than 3TB Support SATA Disk Drives 3TB and larger 12 12 All Supported USB Drive Keys Network Cards (no modem support) Wireless LAN (Intel Centrino 6230 or 6235) • 13 **Onboard Components** Onboard LAN - Intel 82579 Gigabit Ethernet • Integrated 6 in 1 Card Reader Onboard Audio (IDT 92HD91 codec) 9 Onboard SATA RAID 4 4 Onboard USB 3.0 Add Ons Removable CD/DVD Media HP 8x DVD-ROM Drive HP BD-RE (Blu-Ray writer) Input/Output Devices (no spaceball support) HP Optical Scroll Mouse, USB HP Standard Keyboard, USB HP Wireless AIO Keyboard/Mouse

footnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as pre-localized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes preloaded on the system.

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footnote 2 - Get the latest drivers: "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SUSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z1; select "download drivers and software."

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later.

footnote 4 - Hardware RAID is not supported on SATA drives.

TPM Module/ Smart Card

All Supported Monitors

HP Printers

footnote 5 - The Z1 all-in-one can support up to two 2.5-inch SATA drives or one 3.5-inch SATA drive.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

footnote 8 - Depending on the OS release, the kernel DRM and X.org "Intel" driver may not support the Z1 built-in display correctly.

footnote 9 - Depending on the OS release, the kernel ALSA driver may enable all audio functions; some earlier kernels enable headphones but not speakers.

footnote 10 - For NVIDIA Quadro graphics on Linux, HP requires NVIDIA driver versions 295.20 or later for proper Z1 built-in display support.

footnote 11 - For K3000M and K4000M graphics on Linux, NVIDIA driver version 304.51 or later is required.

footnote 12 - In general, single drives or volumes larger than 2.2TB can only be fully accessed using GPT formatting. OSes listed can format GPT for the boot drive or volume but may require installation of UEFI boot support, and can access GPT-formatted data volumes.

footnote 13 - The 6235 wireless controller requires updates to the SLED 11 SP2 kernel support and firmware package. The updates are available from SUSE, and are also included in 2013 versions of the HP drivers kit (see footnote 2).

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HP Z200 SFF Workstation

This page is not complete without the General Notes (first page of the matrix).

| This page is not complete without the General Notes (first page of the matrix). | | | |
|---|---------------------------|---------------------------|----------------------------|
| Product Items/Features | RHEL DT 5.5 or later (x86 | RHEL WS 6.0 or later (x86 | CI ED44 or loter (v06, 64) |
| (Blank box or unlisted -> component is NOT functional w/ as-is OS) | & x86 64) | & x86 64) | SLED11 or later (x86_64) |
| HP Workstation Base System | _ | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • |
| Localization Kit (See footnote 1) | | | |
| HP Localization Kit | • | • | • |
| Software | | | |
| Remote Graphics Software | | | |
| All Supported Processors | | | |
| All Supported Processors (1 CPU configs) | • | • | • |
| Hyperthreading | <u> </u> | • | • |
| Graphics Card (Video Card) (See footnote 2) | • | | T |
| No Graphics Card | VECA Deliver Only | Intel Driver Only | letel Driver Oak |
| Intel Onboard Graphics | VESA Driver Only | Intel Driver Only | Intel Driver Only |
| NVIDIA Quadro NVS 295 | • | • | • |
| NVIDIA Quadro NVS 300 | • | • | • |
| NVIDIA Quadro FX380 LP (Low Profile) | • | • | • |
| NVIDIA Quadro Q600 | • | • | • |
| ATI v3800 PCIe - Single Card Supported | | • | • |
| System RAM | • | | |
| Minimum (GB) | 1GB | 1GB | 1GB |
| Maximum (GB) | 16GB | 16GB | 16GB |
| Hard Disks | | | |
| All Supported SAS Disk Drives | | | |
| All Supported SSD Disk Drives | • | • | • |
| All Supported SATA Disk Drives | • | • | • |
| All Supported USB Drive Keys | • | • | • |
| Network Cards (no modem support) | | | |
| Intel Pro 1000 CT Gigabit PCI | • | • | • |
| Broadcom 5761 PCIe | • | • | • |
| Onboard Components | | | |
| Onboard LAN - Intel 82578DM Gigabit Ethernet | • | • | • |
| Onboard Audio | | • | • |
| Onboard SATA RAID | 4 | 4 | 4 |
| Add Ons | • | | · |
| IEEE 1394A PCI Card | 1 | • | • |
| IEEE 1394A PCI-E Card | | • | • |
| IEEE 1394B PCI-E Card | | | |
| SATA Controllers | 5 | • 5 | 5 |
| Creative Sound Blaster X-Fi | • | • | • |
| Removable CD/DVD Media | • | • | • |
| HP 16x DVD-ROM Drive | | • | • |
| HP 16x Super Multi DVD+RW | 3 | 3 | 3 |
| HP BD-RE (writer) | • | • | • |
| Input/Output Devices (no spaceball support) | <u> </u> | | |
| HP 3-Button Mouse, PS/2 | | • | • |
| HP Scroll Mouse, PS/2 | • | • | • |
| HP Optical Scroll Mouse, USB | • | • | • |
| HP Standard Keyboard, USB/PS2 | • | • | • |
| TPM Module/ Smart Card | | | |
| 22 in 1 Card Reader | • | • | • |
| HP Printers | 6 | 6 | 6 |
| All Supported Monitors | • | • | • |
| | | | |

footnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as prelocalized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes preloaded on the system.

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.4", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z200SFF; Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z200 SFF can support up to 2 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

ootnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

HP Z200 CMT Workstation

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| I his page is not complete without the Gene | rai Notes (first page of the | maurx). | |
|--|------------------------------|----------------------|-------------------|
| Product Items/Features | RHEL DT 5.4 or later (x86 | RHEL WS 6.0 or later | SLED11 or later |
| (Blank box or unlisted -> component is NOT functional w/ as-is OS) | & x86_64) | (x86 & x86_64) | (x86_64) |
| HP Workstation Base System | | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • |
| Localization Kit (See footnote 1) | | | |
| HP Localization Kit | • | • | • |
| Software | | | |
| Remote Graphics Software | | | |
| All Supported Processors | | | |
| All Supported Processors (1 CPU configs) | • | • | • |
| Hyperthreading | • | • | • |
| Graphics Card (Video Card) (See footnote 2) | | | |
| No Graphics Card | • \(\(\frac{1}{2}\) | • | • |
| Intel Onboard Graphics | VESA Driver Only | Intel Driver Only | Intel Driver Only |
| NVIDIA Quadro NVS 295 | • | • | • |
| NVIDIA Quadro NVS 300 | • | • | • |
| NVIDIA Quadro FX380 | • | • | • |
| NVIDIA Quadro FX580 | • | • | • |
| NVIDIA Quadro Q600 | | • | • |
| NVIDIA Quadro FX1800 | • | • | • |
| NVIDIA Quadro Q2000 | + | • | • |
| NVIDIA Quadro FX3800 | | · · | |
| ATI v3700 PCIe - Single Card Supported | • | • | • |
| ATI v5700 PCIe - Single Card Supported | • | • | • |
| ATI v7750 PCIe - Single Card Supported | | | |
| ATI v3800 PCIe - Single Card Supported | • | • | • |
| ATI v4800 PCIe - Single Card Supported | • | • | • |
| ATI v5800 PCIe - Single Card Supported | • | • | • |
| System RAM | | | |
| Minimum (GB) | 1GB | 1GB | 1GB |
| Maximum (GB) | 16GB | 16GB | 16GB |
| Hard Disks | 100B | 100B | 1000 |
| | | | |
| All Supported SAS Disk Drives | | • | |
| All Supported SSD Disk Drives All Supported SATA Disk Drives | • | • | • |
| | | | - |
| All Supported USB Drive Keys | • | • | • |
| Network Cards (no modem support) | | | |
| Intel Pro 1000 CT Gigabit PCI | • | • | • |
| Broadcom 5761 PCIe | • | • | • |
| Onboard Components | <u> </u> | | |
| Onboard LAN - Intel 82578DM Gigabit Ethernet | • | • | • |
| Onboard Audio | • | 4 | 4 |
| Onboard SATA RAID Add Ons | 4 | 4 | 4 |
| IEEE 1394A PCI Card | 1 | • | • |
| IEEE 1394A PCI Card | + | • | • |
| IEEE 1394A PCI-E Card | + | • | • |
| SATA Controllers | 5 | 5 | 5 |
| Creative Sound Blaster X-Fi | • | • | • |
| Removable CD/DVD Media | - | • | • |
| HP 16x DVD-ROM Drive | • | • | • |
| HP 16x Super Multi DVD+RW | 3 | 3 | 3 |
| HP BD-RE (writer) | · | • | • |
| Input/Output Devices (no spaceball support) | | | |
| HP 3-Button Mouse, PS/2 | • | • | • |
| HP Scroll Mouse, PS/2 | • | • | • |
| HP Optical Scroll Mouse, USB | • | • | • |
| HP Standard Keyboard, USB/PS2 | • | • | • |
| TPM Module/ Smart Card | | | |
| 22 in 1 Card Reader | • | • | • |
| HP Printers | 6 | 6 | 6 |
| All Supported Monitors | • | • | • |
| | | | |

footnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as prelocalized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes preloaded on the system.

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.4", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z200; Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z200 can support up to 3 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

HP Z210 SFF Workstation

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| This page is not complete without the G | , , , | * | |
|---|--|---------------------------|---------------------|
| Product Items/Features | RHEL DT 5.6 or later (x86 | RHEL WS 6.0 or later (x86 | SLED11 SP1 or later |
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | & x86 64) | & x86 64) | (x86 64) |
| HP Workstation Base System | | | , , |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • |
| Localization Kit (See footnote 1) | | | |
| HP Localization Kit | • | • | • |
| Software | | | |
| Remote Graphics Software | | | |
| All Supported Processors | | | |
| All Supported Processors (1 CPU configs) | • | • | • |
| Hyperthreading | • | • | • |
| Graphics Card (Video Card) (See footnote 2) | | | |
| No Graphics Card | • | • | • |
| Intel Onboard Graphics | VESA Driver Only | Intel Driver Only | Intel Driver Only |
| NVIDIA Quadro NVS 295 | • | • | • |
| NVIDIA Quadro NVS 300 | • | • | • |
| NVIDIA Quadro Q400 | • | • | • |
| NVIDIA Quadro Q600 | • | • | • |
| | | | |
| ATI v2270 PCIe - Single Card Supported | • | • | • |
| ATI v3800 PCIe - Single Card Supported | • | • | • |
| System RAM | | | |
| Minimum (GB) | 1GB | 1GB | 1GB |
| Maximum (GB) | 16GB | 16GB | 16GB |
| Hard Disks | | | |
| All Supported SAS Disk Drives | | | |
| All Supported SSD Disk Drives | • | • | • |
| All Supported SATA Disk Drives | • | • | • |
| All Supported USB Drive Keys | • | • | • |
| Network Cards (no modem support) | | | |
| Intel Pro 1000 CT Gigabit PCI | • | • | • |
| Broadcom 5761 PCIe | • | • | • |
| Onboard Components | - | - | - |
| Onboard LAN - Intel 82579LM Gigabit Ethernet | 2 | 2 | 2 |
| Onboard Audio | | | |
| Onboard SATA RAID | 4 | 4 | 4 |
| Add Ons | 4 | 4 | 4 |
| IEEE 1394A PCI Card | <u> </u> | • | • |
| IEEE 1394A PCI Card | | • | • |
| IEEE 13948 PCI-E Card | | • | • |
| USB 3.0 PCI-E Card | | • | • |
| SATA Controllers | 5 | 5 | 5 |
| Creative Sound Blaster X-Fi | • | • | • |
| Removable CD/DVD Media | • | • | • |
| HP 16x DVD-ROM Drive | | • | • |
| HP 16x Super Multi DVD+RW | 3 | 3 | 3 |
| HP BD-RE (writer) | • | • | <u> </u> |
| Input/Output Devices (no spaceball support) | <u> </u> | | <u> </u> |
| HP 3-Button Mouse, PS/2 | | • | • |
| HP Scroll Mouse, PS/2 | | • | <u>-</u> |
| HP Optical Scroll Mouse, USB | | • | • |
| HP Standard Keyboard, USB/PS2 | • | • | • |
| TPM Module/ Smart Card | 1 | - | - |
| 22 in 1 Card Reader | • | • | • |
| HP Printers | 6 | 6 | 6 |
| All Supported Monitors | • | • | • |
| · · · · · · · · · · · · · · · · · · · | | L | |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English)

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.4", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z210SFF; Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z210 SFF can support up to 2 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

HP Z210 CMT Workstation

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| (Blank box or unisted means the component is NOT functional will ask is 6 (s) (188 & 186 64) (188 64) | This page is not complete without the | | <u> </u> | |
|--|---|----------------------|---------------------------|---------------------|
| IF Workstation Base System (Collect Chassis System Board, USS, Power Supply, etc. | Product Items/Features | RHEL DT 5.6 or later | RHEL WS 6.0 or later (x86 | SLED11 SP1 or later |
| Sease system includes: Chassis, System Board, USB, Power Supply, etc. | (Blank box or unlisted means the component is NOT functional w/ as-is OS) | (x86 & x86 64) | & x86 64) | (x86 64) |
| Localization Kil Sen footnote 1 | | | | |
| PF Locate place | | • | • | • |
| Software | | | . | |
| Renote Craphics Software | | <u> </u> | <u> </u> | <u> </u> |
| All Supported Processors (1 CPU configs) | | | | |
| All Supported Processors of LCPU confligs | | | 1 | |
| * | | | T - T | |
| Simplice Card (Video Card) (See footnote 2) | | | | |
| No Graphics Card | | | | • |
| Intel Driver Only Inte | | | | • |
| NVIDIA Quadro NVS 296 | | | Intel Driver Only | Intel Driver Only |
| NVIDIA Quadro NVS 300 NVIDIA Quadro Q400 | | | | |
| NVIDIA Quadro 0400 | | | 1 | |
| NVIDIA Quadro Q800 | | | | |
| ATT A A A A | | | 1 | |
| ATI 1/227 P.Cle - Single Card Supported ATI 1/3600 P.Cle - Single Card Supported Support Supported Support Supported Support Supported Support Supported Support Supported Support Supp | | | | |
| ATI V3800 PCIe - Single Card Supported | | • | • | • |
| ATI V480P CPIc - Single Card Supported | ATI v2270 PCIe - Single Card Supported | | | • |
| ATI V4800 PCIe - Single Card Supported | | | | |
| ATI V580P CPLe - Single Card Supported | ATI v4800 PCIe - Single Card Supported | | | |
| ATI V5900 PCIe - Single Card Supported | | | | |
| ATI V7900 PCIe - Single Card Supported | | | | |
| System RAM | | | | |
| Minimum (GB) | | <u> </u> | • 1 | • |
| Maximum (GB) | | 100 | 100 | 100 |
| Hard Disks | | | | |
| All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SSD Disk Drives All Supported USB Drive Keys All Supported Support Broadcom 5761 PCIe Broadcom 5761 PCIE | | 16GB | 16GB | 16GB |
| All Supported SSD Disk Drives All Supported USB Drive Keys All Supported USB Drive May Support Intel Pro 1000 CT Gigabit PCI All Supported USB Drive May Support Breadcom 5781 PCIe All Supported USB Drive May Support Breadcom 5781 PCIe All Supported USB Drive May Support Breadcom 5781 PCIe All Supported USB Drive May Support Breadcom 5781 PCIe All Supported USB Drive May Support Breadcom 5781 PCIe Drive May Support Breadc | | | 1 | |
| All Supported USB Drive Keys | | | + | |
| All Supported USB Drive Keys | | | | |
| Intel Pro 1000 CT Gigabit PCI | | | | |
| Intel Pro 1000 CT Gigabit PCI | | • | • | • |
| Second | | | | |
| Onboard LAN - Intel 82579LM Gigabit Ethernet 2 2 2 Onboard Audio • • • Onboard SATA RAID 4 4 4 Add Ons **** ***** ***** IEEE 1394A PCI Card • • • ***** IEEE 1394A PCI-E Card • • • **** IEEE 1394B PCI-E Card • • • **** USB 3.0 PCI-E Card • • • • **** SATA Controllers 5 | · · | | | • |
| Onboard LAN - Intel 82579LM Gigabit Ethernet 2 2 2 Onboard Audio • | | • | • | • |
| Onboard Audio Onboard SATA RAID 4 4 4 4 4 A A Add Ons IEEE 1394A PCI Card IEEE 1394A PCI Card IEEE 1394B PCI-E CARD IEEE 1394B PCI- | | | | |
| Onboard SATA RAID 4 4 4 Add Ons IEEE 1394A PCI Card | | | | |
| Add Ons IEEE 1394A PCI Card | | | | |
| IEEE 1394A PCI Card | | 4 | 4 | 4 |
| IEEE 1394B PCI-E Card | | | T - T | |
| IEEE 1394B PCI-E Card | | | | |
| USB 3.0 PCI-E Card SATA Controllers 5 5 5 Creative Sound Blaster X-Fi Removable CD/DVD Media HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW 3 3 3 3 HP BD-RE (writer) • • • • • • • • • • • • • • • • • • • | | | | |
| SATA Controllers 5 5 5 Creative Sound Blaster X-Fi • • • • Removable CD/DVD Media *********************************** | | | | |
| Creative Sound Blaster X-Fi | | 5 | | |
| Removable CD/DVD Media HP 16x DVD-ROM Drive • • • • HP HP HP BP HP HP <t< td=""><td></td><td></td><td></td><td></td></t<> | | | | |
| HP 16x DVD-ROM Drive | | · · | | · |
| HP 16x Super Multi DVD+RW 3 3 3 3 HP BD-RE (writer) • • • • • • • • • • • • • • • • • • • | | · · | • | • |
| HP BD-RE (writer) | HP 16x Super Multi DVD+RW | | | |
| Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 • • • HP Scroll Mouse, PS/2 • • • HP Optical Scroll Mouse, USB • • • HP Standard Keyboard, USB/PS2 • • • TPM Module/ Smart Card - • • 22 in 1 Card Reader • • • HP Printers 6 6 6 | HP BD-RE (writer) | | | |
| HP 3-Button Mouse, PS/2 • • • HP Scroll Mouse, PS/2 • • • HP Optical Scroll Mouse, USB • • • HP Standard Keyboard, USB/PS2 • • • TPM Module/ Smart Card • • • 22 in 1 Card Reader • • • HP Printers 6 6 6 | Input/Output Devices (no spaceball support) | | | |
| HP Optical Scroll Mouse, USB • • • HP Standard Keyboard, USB/PS2 • • • TPM Module/ Smart Card * • • 22 in 1 Card Reader • • • HP Printers 6 6 6 | HP 3-Button Mouse, PS/2 | • | • | • |
| HP Standard Keyboard, USB/PS2 | HP Scroll Mouse, PS/2 | • | • | • |
| TPM Module/ Smart Card • • • 22 in 1 Card Reader • • • HP Printers 6 6 6 | HP Optical Scroll Mouse, USB | • | • | • |
| 22 in 1 Card Reader • • HP Printers 6 6 6 6 | HP Standard Keyboard, USB/PS2 | • | • | • |
| HP Printers 6 6 6 | | | | |
| | 22 in 1 Card Reader | | I I | |
| All Supported Monitors • • • | HP Printers | | | |
| | All Supported Monitors | • | • | • |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English)

tootnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.4", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z210CMT; Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z210 CMT can support up to 2 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

HP Z220 SFF Workstation

Originally certified with RHEL 6.3 (x86_64) and SLED 11 SP2 (x86_64). Certified with RHEL 5.8 (x86_64) in October 2012.

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| This page to not complete marout are c | errerai rietee (iii et page er | are maasiy. | |
|---|--------------------------------|----------------------|---------------------|
| Product Items/Features | RHEL DT 5.8 or later | RHEL WS 6.3 or later | SLED11 SP2 or later |
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | (x86 64) | (x86 64) | (x86 64) |
| HP Workstation Base System | | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • |
| Localization Kit (See footnote 1) | | T | |
| HP Localization Kit | • | • | • |
| Software | _ | | |
| Remote Graphics Software | | | |
| All Supported Processors | | T T | |
| All Supported Processors (single-CPU configs) | • | • | • |
| Hyperthreading Firmware Features | • | • | • |
| CSM (Compatibility Support Module) Mode | | • | • |
| 2.1 UEFI Mode | <u> </u> | • | • |
| Intel AMT remote manageability | - | • | • |
| Graphics Card (Video Card) (See footnote 2) | | | |
| No Graphics Card | | • | • |
| Intel Onboard Graphics | VESA Driver Only | 8 | 8 |
| NVIDIA NVS 300 | • | • | • |
| NVIDIA NVS 310 | | | |
| | • | • | • |
| NVIDIA Quadro 410 | • | • | • |
| NVIDIA NVS 510 | • | • | • |
| NVIDIA Quadro Q600 | • | • | • |
| NVIDIA Quadro K600 | • | • | • |
| AMD 2270 | • | • | • |
| AMD v3900 | • | • | • |
| System RAM | | | |
| Minimum (GB) | 2GB | 2GB | 2GB |
| Maximum (GB) | 32GB | 32GB | 32GB |
| Hard Disks | 0205 | 0205 | 0200 |
| SATA Controllers | 5 | 5 | 5 |
| | 3 | 3 | <u> </u> |
| All Supported SAS Disk Drives | | | |
| All Supported SSD Disk Drives | • | • | • |
| All Supported SATA Disk Drives | • | • | • |
| All Supported USB Drive Keys | • | • | • |
| Network Cards (no modem support) | _ | | |
| Intel GbE CT NIC | • | • | • |
| Broadcom NetXtreme PCIe | • | • | • |
| Onboard Components Onboard LAN - Intel 82579 Gigabit Ethernet | | T | |
| Onboard Lan - Intel 825/9 Gigabit Etnernet Onboard Audio | 2 | • | • |
| Onboard SATA RAID | 4 | 4 | <u>•</u> |
| Onboard USB 3.0 | 4 | • | • |
| Add Ons | | • | • |
| IEEE 1394A and 1394B PCI-E Cards | | • | • |
| USB 3.0 PCI-E Card | | • | • |
| Removable CD/DVD Media | | - | <u> </u> |
| HP 16x DVD-ROM Drive | · · | • | • |
| HP 16x Super Multi DVD+RW | 3 | 3 | 3 |
| HP BD-RE (writer) | • | • | • |
| Input/Output Devices (no spaceball support) | • | | |
| HP Mouse, PS/2 or USB | • | • | • |
| HP Optical Scroll Mouse, USB | • | • | • |
| HP Standard Keyboard, USB/PS2 | • | • | • |
| TPM Module/ Smart Card | | | |
| 22 in 1 Card Reader | • | • | • |
| HP Printers | 6 | 6 | 6 |
| All Supported Monitors | • | • | • |
| | - | | |

footnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as prelocalized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes preloaded on the system.

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5," "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SUSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z220SFF; select "download drivers and software."

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z220 SFF can support up to 2 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

footnote 8 - Depending on the OS release, the kernel DRM and X.org "Intel" driver may not support the Intel graphics correctly.

HP Z220 CMT Workstation

Originally certified with RHEL 6.3 (x86_64) and SLED 11 SP2 (x86_64). Certified with RHEL 5.8 (x86_64) in October 2012.

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| Product Items/Features | RHEL DT 5.8 or later | RHEL WS 6.3 or later | SLED11 SP2 or later |
|--|----------------------|----------------------|---------------------|
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | (x86 64) | (x86 64) | (x86 64) |
| HP Workstation Base System | | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • |
| Localization Kit (See footnote 1) | | | |
| HP Localization Kit | • | • | • |
| Software | | | |
| Remote Graphics Software | | | |
| All Supported Processors | 1 - 1 | _ | - |
| All Supported Processors (single-CPU configs) | • | • | • |
| Hyperthreading Firmware Features | <u> </u> | • | • |
| CSM (Compatibility Support Module) Mode | 1 - 1 | _ | |
| | • | • | • |
| 2.1 UEFI Mode Intel AMT remote manageability | | • | • |
| Graphics Card (Video Card) (See footnote 2) | | | |
| No Graphics Card | • | • | • |
| Intel Onboard Graphics | VESA Driver Only | 8 | 8 |
| NVIDIA NVS 300 | | | |
| | • | • | • |
| NVIDIA NVS 310 | • | • | • |
| NVIDIA Quadro 410 | • | • | • |
| NVIDIA NVS 510 | • | • | • |
| NVIDIA Quadro Q600 | • | • | • |
| NVIDIA Quadro Q2000 | • | • | • |
| NVIDIA Quadro Q4000 | | | - |
| | • | • | • |
| NVIDIA Quadro K600 NVIDIA Quadro K2000 | • | • | • |
| NVIDIA Quadro K4000 | • | • | <u> </u> |
| AMD 2270 | | • | • |
| AMD v3900 | • | • | • |
| AMD v4900 | • | • | • |
| AMD v5900 | • | • | • |
| AMD v7900 | • | • | • |
| AMD w7000 | • | • | • |
| System RAM | | | |
| Minimum (GB) | 2GB | 2GB | 2GB |
| Maximum (GB) | 32GB | 32GB | 32GB |
| Hard Disks | , , , , , , , | | |
| SATA Controllers | 5 | 5 | 5 |
| All Supported SAS Disk Drives | - J | 3 | <u>J</u> |
| All Supported SSD Disk Drives | | | |
| All Supported SATA Disk Drives All Supported SATA Disk Drives | • | • | • |
| All Supported USB Drive Keys | | • | • |
| Network Cards (no modem support) | • | • | • |
| Intel GbE CT NIC | | • | • |
| Broadcom NetXtreme PCIe | • | • | • |
| HP X520 10GbE Dual Port Adapter (and SFP+ SR Transceiver) | - | • | • |
| Onboard Components | | - | |
| Onboard LAN - Intel 82579 Gigabit Ethernet | 2 | • | • |
| Onboard Audio | • | • | • |
| Onboard SATA RAID | 4 | 4 | 4 |
| Onboard USB 3.0 | | • | • |
| Add Ons | | | |
| IEEE 1394A and 1394B PCI-E Cards | | • | • |
| USB 3.0 PCI-E Card | | • | • |
| ID | | | |
| Removable CD/DVD Media | | | |
| HP 16x DVD-ROM Drive | • | • | • |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW | 3 | 3 | 3 |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP BD-RE (writer) | | | |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP BD-RE (writer) Input/Output Devices (no spaceball support) | 3 | 3 | 3 |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP BD-RE (writer) Input/Output Devices (no spaceball support) HP Mouse, PS/2 or USB | 3 | 3 | 3 |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP BD-RE (writer) Input/Output Devices (no spaceball support) HP Mouse, PS/2 or USB HP Optical Scroll Mouse, USB | 3 | 3 • | 3 • • |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP BD-RE (writer) Input/Output Devices (no spaceball support) HP Mouse, PS/2 or USB HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS2 | 3 | 3 | 3 |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP BD-RE (writer) Input/Output Devices (no spaceball support) HP Mouse, PS/2 or USB HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS2 TPM Module/ Smart Card | 3 • | 3 | 3 • |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP BD-RE (writer) Input/Output Devices (no spaceball support) HP Mouse, PS/2 or USB HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS2 TPM Module/ Smart Card 22 in 1 Card Reader | * | 3 • • • | 3 • |
| HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP BD-RE (writer) Input/Output Devices (no spaceball support) HP Mouse, PS/2 or USB HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS2 TPM Module/ Smart Card | 3 • | 3 | 3 • |

footnote 1 - HP systems can usually be ordered with a localization that affects documentation, keyboards, and other components. Typical Linux distributions are not installed as prelocalized, but the user can choose a language and keyboard layout during post-installation configuration, or during the "first boot" when the OS comes preloaded on the system.

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5," "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 6" and "HP Installer Kit for Linux - HP Driver CD for SUSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z220CMT; select "download drivers and software."

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is not supported on SATA drives.

footnote 5 - The Z220 CMT can support up to 3 SATA drives.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on all platforms when the processor allows it.

footnote 8 - Depending on the OS release, the kernel DRM and X.org "Intel" driver may not support the Intel graphics correctly.

HP Z400 Workstation

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| I nis page is not complete without | ut trie Gerierai Notes (iirst j | page or the matrix). | | |
|--|--|--|--|---|
| Product Items/Features | RHEL WS 4.8 or later (x86 | RHEL DT 5.3 or later | RHEL WS 6.0 or later | SLED11 or later |
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | & EM64T) | (x86 & x86 64) | (x86 & x86 64) | (x86 64) |
| HP Workstation Base System Base system includes: Chassis, System Board, USB, Power Supply, etc. | | _ | _ | • |
| Localization Kit (See footnote 1) | • | • | • | |
| HP Localization Kit | • | • | • | • |
| Software | | | | |
| Remote Graphics Software | | | | |
| All Supported Processors | _ | _ | _ | |
| All Supported Processors (1 CPU configs) Hyperthreading | • | • | • | • |
| Graphics Card (Video Card) (See footnote 2) | • | • | • | |
| No Graphics Card | • | • | • | • |
| NVIDIA Quadro NVS 295 | • | • | • | • |
| NVIDIA Quadro NVS 300 | • | • | • | • |
| NVIDIA Quadro NVS 450 | • | • | • | • |
| NVIDIA Quadro FX380 NVIDIA Quadro 400 | • | • | • | • |
| NVIDIA Quadro 400 NVIDIA Quadro FX580 | • | • | • | • |
| | • | • | • | • |
| NVIDIA Quadro 600 | • | • | • | • |
| NVIDIA Quadro FX1800 NVIDIA Quadro 2000 | • | • | • | • |
| NVIDIA Quadro 2000 NVIDIA Quadro FX3800 | | • | • | • |
| NVIDIA Quadro 4000 | • | • | • | • |
| NVIDIA Quadro FX4800 | • | • | • | • |
| NVIDIA Quadro 5000 | • | • | • | • |
| NVIDIA Tesla C2075 | | • | • | • |
| ATI v2270 PCIe - Single Card Supported ATI v3700 PCIe - Single Card Supported | • | • | • | • |
| ATI v5700 PCIe - Single Card Supported ATI v5700 PCIe - Single Card Supported | | • | • | • |
| ATI v7750 PCIe - Single Card Supported | • | • | • | • |
| ATI v3800 PCIe - Single Card Supported | • | • | • | • |
| ATI v3900 PCIe - Single Card Supported | • | • | • | • |
| ATI v4800 PCle - Single Card Supported | • | • | • | • |
| ATI v4900 PCIe - Single Card Supported | • | • | • | • |
| ATI v5800 PCle - Single Card Supported | • | • | • | • |
| ATI v5900 PCle - Single Card Supported | | • | • | • |
| ATL 7000 PCIa. Cingle Cord Cupperted | | | | |
| ATI v7900 PCIe - Single Card Supported | | • | • | • |
| System RAM | 1GB | | | |
| System RAM Minimum (GB) | 1GB 24GB | 1GB | 1GB | 1GB |
| System RAM Minimum (GB) Maximum (GB) | 1GB 24GB | | | |
| System RAM Minimum (GB) | | 1GB | 1GB | 1GB |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives | 24GB | 1GB 24GB | 1GB 24GB | 1GB 24GB |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives | 24GB 4 | 1GB 24GB 4 • 4,5 | 1GB 24GB 4 • 4,5 | 1GB 24GB 4 • 4,5 |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USATA Disk Drives All Supported USB Drive Keys | 24GB 4 • | 1GB 24GB 4 | 1GB 24GB 4 | 1GB 24GB 4 |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) | 4 • 4,5 • | 1GB 24GB 4 • 4,5 | 1GB 24GB 4 • 4,5 | 1GB 24GB 4 • 4.5 |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe | 24GB 4 • 4,5 • | 1GB 24GB 4 • 4,5 | 1GB 24GB 4 • 4,5 | 1GB 24GB 4 • 4.5 |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI | 4 • 4,5 • | 1GB 24GB 4 • 4,5 | 1GB 24GB 4 • 4,5 | 1GB 24GB 4 • 4.5 |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components | 24GB 4 4,5 • • • | 1GB 24GB 4 • 4,5 • | 1GB 24GB 4 • 4,5 • | 1GB 24GB 4 • • • • |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 | 24GB 4 4,5 • • • • • | 1GB 24GB 4 • 4,5 • | 1GB 24GB 4 • 4,5 • | 1GB 24GB 4 • 4,5 • • • • • • • • • • • • • • • • • • • |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCle Intel Pro 1000 CT Gigabit PCl Intel NC360T PCle Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio | 24GB 4 4 4,5 • • • • • • • • | 1GB 24GB 4 • 4,5 • • | 1GB 24GB 4 • • • • • • | 1GB 24GB 4 • • • • • |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard SATA RAID | 24GB 4 4,5 • • • • • | 1GB 24GB 4 • 4,5 • | 1GB 24GB 4 • 4,5 • | 1GB 24GB 4 • 4,5 • • • • • • • • • • • • • • • • • • • |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCle Intel Pro 1000 CT Gigabit PCl Intel MC360T PCle Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard AATA RAID Add Ons | 24GB 4 4,5 • • • 4 4,5 4 4 4 4 4 4 4 4 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • • • • • • • • • • • • • • • • • • | 1GB 24GB 4 • 4,5 • • • • • • • • • • • • • • • • • • • | 1GB 24GB 4 • • • • • • • • • • • • • • • • • • • |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard SATA RAID | 24GB 4 4 4,5 • • • • • • • • | 1GB 24GB 4 • 4,5 • • | 1GB 24GB 4 • • • • • • | 1GB 24GB 4 • • • • • |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAD Disk Drives All Supported SAD Disk Drives All Supported USB Drive Keys Metwork Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard Audio Onboard Audio Onboard AAD ARAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-41 | 24GB 4 4 4,5 • • • 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 4 | 1GB 24GB 4 4 4 4 5 4 4 4 4 4 4 4 |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCle Intel Pro 1000 CT Gigabit PCl Intel Pro 1000 CT Gigabit PCl Intel NC360T PCle Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-41 LSI 9260-81 | 24GB 4 4 4,5 • • 4 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • • • • • • • • • • • • • • • • • • | 1GB 24GB 4 • 4,5 • • • 4 4 4 4 4 4 4 | 1GB 24GB 4 4 4 4 5 6 6 6 4 4 4 4 4 4 4 4 |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-4i LSI 9212-4i LSI 9212-4i IEEE 1394A PCI Card | 24GB 4 4 4,5 • • • 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 | 1GB 24GB 4 • • • • • • • • • • • • • • • • • • | 1GB 24GB 4 4,5 • • • 4 4 4 4 4 4 4 |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported USB Drive Keys All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCle Intel Pro 1000 CT Gigabit PCl Intel NC360T PCle Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard Audio Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-44 LSI 9260-81 IEEE 1394A PCI Card IEEE 1394A PCI-E Card | 24GB 4 4 4,5 • • • 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 4 • • • • • • | 1GB 24GB 4 4 4 5 4 4 4 4 4 4 4 4 4 |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCle Intel Pro 1000 CT Gigabit PCl Intel Pro 1000 CT Gigabit PCl Intel NC360T PCle Dual Port Gigabit NIC Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-41 LSI 9260-81 IEEE 1394A PCI-E Card IEEE 1394A PCI-E Card | 24GB 4 4 4,5 • • • 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 | 1GB 24GB 4 • • • • • • • • • • • • • • • • • • | 1GB 24GB 4 4 4,5 • 4 4 4 4 4 4 4 4 |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported USB Drive Keys All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCle Intel Pro 1000 CT Gigabit PCl Intel NC360T PCle Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard Audio Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-44 LSI 9260-81 IEEE 1394A PCI Card IEEE 1394A PCI-E Card | 24GB 4 4 4,5 • • • 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • • 4 4 4 4 4 4 • • • • • • • | 1GB 24GB 4 • • • • • • • • • • • • • • • • • • |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAD Disk Drives All Supported SAD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCle Intel Pro 1000 CT Gigabit PCl Intel Pro 1000 CT Gigabit PCl Intel NC360T PCle Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-41 LSI 9260-81 IEEE 1394A PCI-E Card IEEE 1394A PCI-E Card USB 3.0 PCI-E Card USB 3.0 PCI-E Card Creative Sound Blaster X-Fi Removable CD/DVD Media | 24GB 4 4 4,5 • • • 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 | 1GB 24GB 4 4 4,5 • • 4 4 4 4 4 4 • • • • • | 1GB 24GB 4 • • • • • • • • • • • • • • • • • • |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard Components Onboard Audio Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-4i LSI 9260-3i IEEE 1394A PCI Card IEEE 1394A PCI Card IEEE 1394A PCI-E Card USB 3.0 PCI-E Card USB 3.0 PCI-E Card USB 3.0 PCI-E Card Creative Sound Blaster X-Fi Removable CD/DVD Media HP 16x DVD-ROM Drive | 24GB 4 4 4,5 • • 4 4 4 4 4 4 4 4 4 6 6 6 6 | 1GB 24GB 4 4 4,5 • • 4 4 4 4 4 4 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • • 4 4 4 4 4 4 • • • • • • • | 1GB 24GB 4 4 4,5 • • 4 4 4 4 4 4 • • • • • |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported USB Drive Keys All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel MC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard CAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 888 ELP LSI 9212-4i LSI 9260-8i IEEE 1394A PCI Card IEEE 1394A PCI-E Card IEEE 1394B PCI-E Card USB 3.0 PCI-E Card Creative Sound Blaster X-Fi Removable CD/DVD Media HP 16x VUP-ROM Drive HP 16x VUP-ROM Drive HP 16x Super Multi DVD-RW | 24GB 4 4 4,5 • • 4 4 4 4 4 4 4 3 3 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 4 3 3 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 4 5 • • • • | 1GB 24GB 4 4 4 5 4 4 4 4 4 4 4 4 4 |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-4i LSI 9260-8i IEEE 1394A PCI-E Card IEEE 1394B PCI-E Card USB 3.0 PCI-E Card USB 3.0 PCI-E Card USB 3.0 PCI-E Card Creative Sound Blaster X-Fi Removable CD/DVD Media HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP 16x Super Multi DVD+RW HP BD-RE (writer) | 24GB 4 4 4,5 • • 4 4 4 4 4 4 4 4 4 6 6 6 6 | 1GB 24GB 4 4 4,5 • • 4 4 4 4 4 4 4 4 4 4 4 | 1GB 24GB 4 • 4,5 • • • 4 4 4 4 4 4 • • • • • • • | 1GB 24GB 4 4 4,5 • • 4 4 4 4 4 4 • • • • • |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit NIC Onboard Components Onboard Audio Onboard Audio Onboard AATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-4i LSI 9260-8i IEEE 1394A PCI Card IEEE 1394A PCI Card IEEE 1394A PCI-E Card USB 3.0 PCI-E Card USB 3.0 PCI-E Card Creative Sound Blaster X-Fi Removable CD/DVD Media HP 16x DVD-ROM Drive HP 16x DVD-ROM Drive HP 16x DVD-RCM Intel Input/Output Devices (no spaceball support) | 24GB 4 4 4,5 • • 4 4 4 4 4 4 4 3 3 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 4 3 3 | 1GB 24GB 4 • 4,5 • • 4 4 4 4 4 4 4 5 • • • • | 1GB 24GB 4 4 4 5 4,5 6 4 4 4 4 4 4 4 4 4 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-4i LSI 9212-4i LSI 9220-8i IEEE 1394A PCI Card IEEE 1394A PCI Card USB 3.0 PCI-E Card | 24GB 4 4 4,5 • 4 4 4 4 4 4 4 3 • • • • • • • • • • • • | 1GB 24GB 4 4 4 4,5 • • 4 4 4 4 4 4 4 4 4 4 4 | 1GB 24GB 4 4 4 4,5 • • 4 4 4 4 4 4 5 • • • • • • • • • • • • | 1GB 24GB 4 4 4,5 • • 4 4 4 4 4 4 • • • • • |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit NIC Onboard Components Onboard Audio Onboard Audio Onboard AATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-4i LSI 9280-8i IEEE 1394A PCI Card IEEE 1394A PCI Card IEEE 1394A PCI-E Card IEEE 1394A PCI-E Card USB 3.0 PCI-E Card Creative Sound Blaster X-Fi Removable CD/DVD Media HP 16x DVD-ROM Drive HP 3-Button Mouse, PS/2 HP Scroll Mouse, PS/2 HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB | 24GB 4 4 4,5 • • • 4 4 4 4 4 4 4 • • • | 1GB 24GB 4 4 4 4,5 • • 4 4 4 4 4 4 4 • • • • | 1GB 24GB 4 4 4 4,5 • • 4 4 4 4 4 4 4 5 • • • • • • • • • • • • | 1GB 24GB 4 4 4,5 • • • 4 4 4 4 4 4 5 • • • • • • • • • • • • |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCle Intel Pro 1000 CT Gigabit PCl Intel Pro 1000 CT Gigabit PCl Intel NC3601 PCle Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 3912-4i LSI 9212-4i LSI 9260-8i IEEE 1394A PCI-E Card IEEE 1394A PCI-E Card IEEE 1394A PCI-E Card USB 3.0 PCI-E Card USB 3.0 PCI-E Card Creative Sound Blaster X-Fi Removable CD/DVD Media HP 16x DVD-ROM UTVD-RW HP BD-RE (writer) Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 HP Scroll Mouse, PS/2 HP Scroll Mouse, USB HP Standard Keyboard, USB/PS2 | 24GB 4 4 4,5 • • • 4 4 4 4 4 4 4 • • • | 1GB 24GB 4 4 4,5 4,5 • 4 4 4 4 4 4 4 4 4 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 1GB 24GB 4 4 4 4,5 • • 4 4 4 4 4 4 5 • • • • • • • • • • | 1GB 24GB 4 4 4,5 • • 4 4 4 4 4 4 5 • • • • • • • • • • • • |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard Audio Onboard SATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-4i LSI 9212-4i LSI 9220-8i IEEE 1394A PCI-C Card IEEE 1394A PCI-C Card USB 3.0 PCI-E Card USB 3.0 PCI | 24GB 4 4 4,5 • • • 4 4 4 4 4 4 4 • • • | 1GB 24GB 4 4 4 4,5 • • 4 4 4 4 4 4 4 • • • • • • • • • • | 1GB 24GB 4 4 4,5 | 1GB 24GB 4 4 4,5 • • 4 4 4 4 4 4 4 5 • • • • • • • • • • • • |
| System RAM Minimum (GB) Maximum (GB) Maximum (GB) Maximum (GB) Hard Disks All Supported SSD Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 576 (PCIe Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit NIC Onboard Components Onboard Audio Onboard Audio Onboard AATA RAID Add Ons LSI 3041E SAS Card LSI 3041E SAS Card LSI 3048 SLP LSI 39212-4i LSI 9260-8i IEEE 1394A PCI Card IEEE 1394A PCI-E Card IEEE 1394A PCI-E Card IEEE 1394B PCI-E Card Creative Sound Blaster X-Fi Removable CD/DVD Media HP 16x DVD-ROM Drive HP 16x Super Multi DVD+RW HP BD-RE (writer) Imput/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 HP Scroll Mouse, ISB/PS2 TPM Module/ Smart Card 22 in 1 Card Reader | 24GB 4 4 4,5 • • • 4 4 4 4 4 4 4 • • • | 1GB 24GB 4 4 4,5 • • • 4 4 4 4 4 4 4 • • • | 1GB 24GB 4 4 4 5 4.5 6 6 4 4 4 4 4 4 5 6 6 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 1GB 24GB 4 4 4 4 5 6 4 4 4 4 4 4 4 4 4 6 6 6 |
| System RAM Minimum (GB) Maximum (GB) Hard Disks All Supported SAS Disk Drives All Supported SAS Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Broadcom 5761 PCIe Intel Pro 1000 CT Gigabit PCI Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Onboard Components Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard AATA RAID Add Ons LSI 3041E SAS Card LSI 8888 ELP LSI 9212-4i LSI 9212-4i LSI 9212-4i IEEE 1394A PCI Card IEEE 1394A PCI-E Card USB 3.0 PCI-E Ca | 24GB 4 4 4,5 • • • 4 4 4 4 4 4 4 • • • | 1GB 24GB 4 4 4 4,5 • • 4 4 4 4 4 4 4 • • • • • • • • • • | 1GB 24GB 4 4 4,5 | 1GB 24GB 4 4 4,5 • • 4 4 4 4 4 4 4 5 • • • • • • • • • • • • |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.7", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.3", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterprise Desktop 11" ISO images from http://www.hp.com/support/z400; Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 4 or later, Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Hardware RAID is supported using the LSI 3041E (RAID 0,1 SAS only), LSI 8888 ELP (RAID 0, 1, 5 SAS only), LSI 9212 (RAID 0,1 SAS only) and the LSI 9260-8i (RAID 0, 1, 5 SAS only). SATA RAID is not supported.

footnote 5 - The Z400 can support up to 4 SATA drives. To support the third and fourth SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

tootnote 7 - Hyperthreading is supported on platforms when the processor allows it. There are one or two low-end processors which do not support turbo mode or hyperthreading.

Linux Hardware Matrix for HP Workstations HP Z600 Workstation This page is not complete without the General Notes (first page of the matrix) Product Items/Features RHEL WS 4.8 or later RHEL DT 5.3 or later RHEL WS 6.0 or later SLED11 or later (Blank box or unlisted means the component is NOT functional w/ as-is OS) (x86 & EM64T) (x86 & x86 64) (x86 64) (x86 & x86 64) HP Workstation Base System Base system includes: Chassis, System Board, USB, Power Supply, etc Localization Kit (See footnote 1) HP Localization Kit Software Remote Graphics Software All Supported Processors All Supported Processors (1 & 2 CPU configs) Graphics Card (Video Card) (See footnote 2) No Graphics Card NVIDIA Quadro NVS 295 NVIDIA Quadro NVS 300 NVIDIA Quadro NVS 450 NVIDIA Quadro FX380 NVIDIA Quadro 400 NVIDIA Quadro FX580 NVIDIA Quadro 600 NVIDIA Quadro FX1800 NVIDIA Quadro 2000 NVIDIA Quadro FX3800 NVIDIA Quadro 4000 NVIDIA Quadro FX4800 NVIDIA Quadro 5000 NVIDIA Quadro 6000 ATI v2270 PCIe - Single Card Supported ATI v3700 PCIe - Single Card Supported ATI v5700 PCIe - Single Card Supported ATI v7750 PCIe - Single Card Supported ATI v3800 PCIe - Single Card Supported ATI v3900 PCIe - Single Card Supported ATI v4800 PCle - Single Card Supported ATI v4900 PCIe - Single Card Supported ATI v5800 PCIe - Single Card Supported ATI v5900 PCIe - Single Card Supported ATI v7900 PCIe - Single Card Supported System RAM 1GB 1GB 1GB Minimum (GB) 1GB Maximum (GB) 48GB 48GB 48GB 48GB Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives All Supported USB Drive Keys Network Cards (no modem support) Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

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1

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit

Onboard Components

Onboard Audio
Onboard SATA RAID
Add Ons
LSI 3041E SAS Card
LSI 8888 ELP
LSI 9212-4i
LSI 9260-8i
IEEE 1394A PCI Card
IEEE 1394A PCI-E Card
IEEE 1394B PCI-E Card
USB 3.0 PCI-E Card
Creative Sound Blaster X-Fi
Removable CD/DVD Media
HP 16x DVD-ROM Drive
HP 16x Super Multi DVD+RW

HP BD-RE (writer)

HP 3-Button Mouse, PS/2 HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS/2 TPM Module/ Smart Card 22 in 1 Card Reader

All Supported Monitors

Onboard LAN - Broadcom 5764 10/100/1000

Input/Output Devices (no spaceball support)

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.7", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.3", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterpise Desktop 11" ISO images from http://www.hp.com/support/z600; Select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 4 or later, Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 3041E (RAID 0,1 SAS only), LSI 8888 ELP (RAID 0, 1, 5 SAS only), LSI 9212 (RAID 0,1 SAS only), and the LSI 9260-8i (RAID 0, 1, 5 SAS only). SATA RAID is not supported.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

tootnote 7 - Hyperthreading is supported on platforms when the processor allows it. There are one or two low-end processors which do not support turbo mode or hyperthreading.

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Linux Hardware Matrix for HP Workstations **HP Z800 Workstation** This page is not complete without the General Notes (first page of the matrix). Product Items/Features RHEL WS 6.0 or later RHEL WS 4.8 or later RHEL DT 5.3 or later SLED11 or late (Blank box or unlisted means the component is NOT functional w/ as-is OS) (x86 & EM64T) (x86 & x86 64) (x86 & x86 64) (x86 64) **HP Workstation Base System** Base system includes: Chassis, System Board, USB, Power Supply, etc ocalization Kit (See footnote 1) HP Localization Kit Software Remote Graphics Software All Supported Processors All Supported Processors (1 & 2 CPU configs) Graphics Card (Video Card) (See footnote 2) NVIDIA Quadro NVS 295 NVIDIA Quadro NVS 300 NVIDIA Quadro NVS 450 NVIDIA Quadro FX380 NVIDIA Quadro 400 NVIDIA Quadro FX580 NVIDIA Quadro 600 NVIDIA Quadro FX1800 NVIDIA Quadro 2000 NVIDIA Quadro FX3800 NVIDIA Quadro 4000 NVIDIA Quadro FX4800 NVIDIA Quadro 5000 NVIDIA Quadro FX5800 NVIDIA Quadro 6000 Tesla C1060 Tesla 3GB C2050 NVIDIA Tesla C2075 ATI v2270 PCIe - Single Card Supported ATI v3700 PCIe - Single Card Supported ATI v5700 PCle - Single Card Supported ATI v7750 PCIe - Single Card Supported ATI v3800 PCIe - Single Card Supported ATI v3900 PCIe - Single Card Supported ATI v4800 PCIe - Single Card Supported ATI v4900 PCle - Single Card Supported ATI v5800 PCIe - Single Card Supported ATI v5900 PCle - Single Card Supported ATI v7900 PCIe - Single Card Supported ATI v8800 PCIe - Single Card Supported System RAM 1GB Minimum (GB) 1GB 1GB 1GB Maximum (GB) 192GB 192GB 192GB 192GB Hard Disks All Supported SAS Disk Drives All Supported SSD Disk Drives All Supported SATA Disk Drives Network Cards (no modem support) Broadcom 5764 PCIe Intel Pro 1000 CT Gigabit PCI Intel NC360T PCIe Dual Port Gigabit NIC Intel Pro 1000 GT Gigabit PCI **Onboard Components** Onboard LAN - Broadcom 5764 10/100/1000 Onboard Audio Onboard SATA RAID Onboard SAS RAID Add Ons IEEE 1394A PCI Card IEEE 1394A PCI-E Card IEEE 1394B PCI-E Card USB 3.0 PCI-E Card Creative Sound Blaster X-Fi _SI 8888 ELF Removable CD/DVD Media HP 16x Super Multi DVD+RW 4 Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USE HP Standard Keyboard, USB/PS2 TPM Module/ Smart Card 22 in 1 Card Reader **HP Printers** All Supported Monitors

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.7", "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.3", and "HP Installer Kit for Linux - HP Driver CD for SuSE Linux Enterpise Desktop 11" ISO images from http://www.hp.com/support/z800; select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 4 or later, Red Hat EL 5 Desktop or later and SLED11 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 5 - Hardware RAID is supported using the LSI 8888 ELP (RAID 0,1, 5 SAS only), LSI 8888 ELP (RAID 0, 1, 5 SAS only), LSI 9260-8i (RAID 0, 1, 5 SAS only), and the Onboard SAS RAID (RAID 0,1,). SATA RAID is not supported.

footnote 6 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 7 - Hyperthreading is supported on platforms when the processor allows it. There are one or two low-end processors which do not support turbo mode or hyperthreading.

HP xw8600 Workstation

Originally certified with RHEL4.5 (x86 & x86_64), RHEL5 (x86 & x86_64), and SLED 11 (x86_64)

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| This page is not complete without the C | serierai Notes (iirst page or i | ine mainx). | |
|--|---------------------------------|-----------------------------|--------------------------|
| Product Items/Features | RHEL WS 4.6 or later (x86 & | RHEL DT 5.1 or later (x86 & | SLED11 or later (x86_64) |
| (Blank box or unlisted -> component is NOT functional w/ as-is OS) | EM64T) | x86 64) | SLEDTI Of later (x66_64) |
| HP Workstation Base System | | | |
| - | 1 | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • |
| Localization Kit (See footnote 1) | | | |
| HP Localization Kit | • | • | • |
| Software Continue of the conti | | | |
| Remote Graphics Software | | | |
| All Supported Processors All Supported Processors (1 & 2 CPU configs) | | • | • |
| Hyperthreading | | • | • |
| Graphics Card (Video Card) (See footnote 3) | | | |
| No Graphics Card | • | • | • |
| NVIDIA Quadro NVS 290 | | • | • |
| NVIDIA Quadro NVS 295 | · · | · · | • |
| NVIDIA Quadro NVS 295 | • | • | |
| NVIDIA Quadro NVS440 NVIDIA Quadro NVS450 | • | • | • |
| NVIDIA Quadro NVS450 NVIDIA Quadro FX370 | + : | • | • |
| NVIDIA Quadro FX370 | + : | • | • |
| NVIDIA Quadro FX570 | | | |
| | • | • | • |
| NVIDIA Quadro FX580 | • | • | • |
| NVIDIA Quadro FX1700 | • | • | • |
| NVIDIA Quadro FX1800 | • | • | • |
| NVIDIA Quadro FX3700 | • | | |
| NVIDIA Quadro FX3800 NVIDIA Quadro FX4600 | • | • | • |
| NVIDIA Quadro FX4800 NVIDIA Quadro FX4800 | : | • | • |
| NVIDIA Quadro FX5800 | • | • | <u> </u> |
| SLI Graphics Connector | - | • | • |
| ATI v5600 PCIe | | | |
| ATI v5700 PCIe | | | |
| ATI v7700 PCIe | | | |
| ATI v7750 PCIe | i | | |
| System RAM | | | |
| Minimum (MB) | 512 | 512 | 512 |
| Maximum | 128GB | 128GB | 128GB |
| Hard Disks | | | |
| All Supported SAS Disk Drives | 6 | 6 | 6 |
| All Supported SATA Disk Drives | 6 | 6 | 6 |
| All Supported USB Drive Keys | • | • | • |
| Network Cards (no modem support) | | | |
| Broadcom 5751 PCIe | • | • | • |
| Intel Pro 1000 PT Gigabit PCI | • | • | • |
| Onboard Components Onboard LAN - Broadcom 5755 10/100/1000 | T . | | |
| Onboard Audio | • | • | • |
| Onboard SATA/SAS RAID | 5 | 5 | 5 |
| Add Ons | <u> </u> | | <u> </u> |
| IEEE 1394 PCI Card | | | |
| Creative Sound Blaster X-Fi | | | |
| LSI 8888 ELP | 5 | 5 | 5 |
| Hardware RAID | 5 | 5 | 5 |
| Removable CD/DVD Media | | | |
| HP 48x CD-ROM Drive | • | • | • |
| HP 16x DVD-ROM Drive | • | • | • |
| HP 48x DVD/CDRW Combo | • | • | • |
| HP 16x dual-layer DVD+RW | 4 | 4 | 4 |
| Input/Output Devices (no spaceball support) | | | |
| HP 3-Button Mouse, PS/2 | 7 | 7 | 7 |
| HP Scroll Mouse, PS/2 | 7 | 7 | 7 |
| HP Optical Scroll Mouse, USB | 7 | 7 | 7 |
| HP Standard Keyboard, USB | 7 | 7 | 7 |
| Marillan Karlanna (/TDM Marilla / Oranna Oran) | · · | | |
| Modular Keyboard/ TPM Module/ Smart Card | · | 0 | 0 |
| Modular Keyboard/ TPM Module/ Smart Card HP Printers All Supported Monitors | 8 | 8 | 8 |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.6", and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.1" ISO images from http://www.hp.com/support/xw8600; Select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Hardware RAID is supported using the LSI 8888 ELP card (RAID 0,1, 5 SAS Only) and Onboard SAS RAID (RAID 0,1,). SATA RAID is not supported.

footnote 6 - Mixed hard drives are not offered on the preload. Use SATA or SAS, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 7 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 8 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net

HP xw6600 Workstation

Originally certified with RHEL4.5 (x86 & x86_64), RHEL5 (x86 & x86_64), and SLED 11 (x86_64)

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| This page is not complete without the | General Notes (first page of | the matrix). | |
|---|--|--------------|--------------------------|
| Product Items/Features | RHEL WS 4.6 or later (x86 & | | SLED11 or later (x86_64) |
| (Blank box or unlisted -> component is NOT functional w/ as-is OS) | EM64T) | x86 64) | OLLDITION later (X00_04) |
| HP Workstation Base System | | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • |
| Localization Kit (See footnote 1) | | | |
| HP Localization Kit | • | • | • |
| Software | | | |
| Remote Graphics Software | | | |
| All Supported Processors All Supported Processors (1 & 2 CPU configs) | | • | • |
| Hyperthreading | | • | • |
| Graphics Card (Video Card) (See footnote 3) | | | |
| No Graphics Card | • | • | • |
| NVIDIA Quadro NVS 290 | <u> </u> | • | • |
| NVIDIA Quadro NVS 295 | • | • | • |
| NVIDIA Quadro NVS440 | | • | • |
| NVIDIA Quadro NVS440 | | • | • |
| NVIDIA Quadro FX370 | | • | • |
| NVIDIA Quadro FX370 | | • | • |
| NVIDIA Quadro FX570 | • | • | • |
| NVIDIA Quadro FX580 | | | |
| NVIDIA Quadro FX580 NVIDIA Quadro FX1700 | • | • | • |
| NVIDIA Quadro FX1700 NVIDIA Quadro FX1800 | | | |
| NVIDIA Quadro FX1800 NVIDIA Quadro FX3700 | • | • | • |
| NVIDIA Quadro FX3700 | | • | • |
| NVIDIA Quadro FX4600 | • | • | • |
| NVIDIA Quadro FX4800 | • | • | • |
| NVIDIA Quadro FX5800 | • | • | • |
| ATI v3700 PCIe | | | |
| ATI v5600 PCle | | | |
| ATI v5700 PCIe | | | |
| ATI v7700 PCIe | | | |
| ATI v7750 PCle | | | |
| ATI RV560 PCIe | 1 | | |
| System RAM | 510 | 512 | 540 |
| Minimum (MB) Maximum | 512 32GB | 32GB | 512 32GB |
| Hard Disks | 32GB | 32GB | 32GB |
| All Supported SAS Disk Drives | 6 | 6 | 6 |
| All Supported SATA Disk Drives | 6 | 6 | 6 |
| All Supported USB Drive Keys | • | • | • |
| Network Cards (no modem support) | | | |
| Broadcom 5751 PCle | • | • | • |
| Intel Pro 1000 PT Gigabit PCI | • | • | • |
| Onboard Components | | | |
| Onboard LAN - Broadcom 5755 10/100/1000 | • | • | • |
| Onboard Audio | • | • | • |
| Onboard SATA RAID | 5 | 5 | 5 |
| Add Ons | | | |
| LSI 3041E SAS Card IEEE 1394 PCI Card | • | • | • |
| SATA Controllers | + | | |
| Creative Sound Blaster X-Fi | 1 | | |
| Hardware RAID | 5 | 5 | 5 |
| Removable CD/DVD Media | | <u> </u> | <u> </u> |
| HP 48x CD-ROM Drive | | • | • |
| HP 16x DVD-ROM Drive | • | • | • |
| HP 48x DVD/CDRW Combo | • | • | • |
| HP 16x dual-layer DVD+RW | 4 | 4 | 4 |
| Input/Output Devices (no spaceball support) | | | |
| HP 3-Button Mouse, PS/2 | 7 | 7 | 7 |
| HP Scroll Mouse, PS/2 | 7 | 7 | 7 |
| HP Optical Scroll Mouse, USB | 7 | 7 | 7 |
| HP Standard Keyboard, USB | 7 | 7 | 7 |
| 14 14 14 14 14 14 14 14 14 14 14 14 14 1 | | | |
| Modular Keyboard/ TPM Module/ Smart Card | | C | ^ |
| Modular Keyboard/ TPM Module/ Smart Card HP Printers All Supported Monitors | 8 | 8 | 8 |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.6", and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.1" ISO images from http://www.hp.com/support/xw6600; Select "download drivers and software".

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Hardware RAID is supported using the LSI 3041E card (RAID 0,1 SAS Only). SATA RAID is not supported.

footnote 6 - Mixed hard drives are not offered on the preload. Use SATA or SAS, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 7 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 8 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net

HP xw4600 Workstation

Originally certified with RHEL4 Update 5 (x86 & x86_64), RHEL5 (x86 & x86_64), and SLED 11 (x86 & x86_64)

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| This page is not complete | e without the General Notes (first page o | f the matrix). | |
|---|---|---------------------------|--------------------------|
| Product Items/Features | RHEL WS 4 U5 or later (x86 & | RHEL DT 5 or later (x86 & | SLED11 or later (x86 64) |
| (Blank box or unlisted -> component is NOT functional w/ as-is OS) | EM64T) | x86 64) | 012311 01 later (x00_0.) |
| HP Workstation Base System Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | T |
| Localization Kit (See footnote 1) | • | • | • |
| HP Localization Kit | - . | • | |
| Software | i | • | · |
| Remote Graphics Software | | | |
| All Supported Processors | | | |
| All Supported Processors (1 CPU configs) | • | • | • |
| Graphics Card (Video Card) (See footnote 2) | | | |
| No Graphics Card | • | • | • |
| NVIDIA Quadro NVS 290 | • | • | • |
| NVIDIA Quadro NVS 295 | • | • | • |
| NVIDIA Quadro NVS440 | • | • | • |
| NVIDIA Quadro NVS450 | • | • | • |
| NVIDIA Quadro FX370 | • | • | • |
| NVIDIA Quadro FX380 | • | • | • |
| NVIDIA Quadro FX570 | • | • | • |
| NVIDIA Quadro FX580 | • | • | • |
| NVIDIA Quadro FX1700 | • | • | • |
| NVIDIA Quadro FX1800 | : | • | • |
| NVIDIA Quadro FX3700 NVIDIA Quadro FX3800 | • | • | • |
| NVIDIA Quadro FX3800 NVIDIA Quadro FX4600 | : | • | : |
| NVIDIA Quadro FX4800 | | • | • |
| NVIDIA Quadro FX5800 | • | • | • |
| ATI v3700 PCIe | | • | • |
| ATI v5600 PCIe | | | |
| ATI v5700 PCIe | • | • | • |
| ATI v7700 PCle | | | |
| ATI v7750 PCle | • | • | • |
| System RAM | | | |
| Minimum (GB) | 1GB | 1GB | 1GB |
| Maximum (GB) | 8GB | 8GB | 8GB |
| Hard Disks | | | |
| All Supported SAS Disk Drives | 5 | 5 | 5 |
| All Supported SSD Disk Drives | • | • | • |
| All Supported SATA Disk Drives | 4,6 | 4,6 | 4,6 |
| All Supported USB Drive Keys | • | • | • |
| Network Cards (no modem support) | | | ı |
| Broadcom 5751 PClexpress Intel Pro 1000 PT Gigabit PCI | • | • | • |
| Onboard Components | • | • | • |
| Onboard LAN - Broadcom 5755 10/100/1000 | 2 | 2 | 2 |
| Onboard Audio | • | • | • |
| Onboard SATA RAID | 5 | 5 | 5 |
| Add Ons | | | |
| LSI 3041E SAS Card | • | • | • |
| IEEE 1394 PCI Card | | | |
| All non-RAID U320 SCSI Controllers | • | • | • |
| SATA Controllers | | | |
| Creative Sound Blaster X-Fi Hardware RAID | 5 | 5 | 5 |
| Removable CD/DVD Media | | 5 | 5 |
| HP 48x CD-ROM Drive | • | • | |
| HP 16x DVD-ROM Drive | • | • | • |
| HP 48x DVD/CDRW Combo | • | • | • |
| HP 16x dual-layer DVD+RW | 3 | 3 | 3 |
| HP BD-RE (writer) | • | • | • |
| Input/Output Devices (no spaceball support) | | | 1 |
| HP 3-Button Mouse, PS/2 | • | • | • |
| HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB | • | • | • |
| HP Standard Keyboard, USB/PS2 | | • | • |
| TPM Module/ Smart Card | <u> </u> | • | <u> </u> |
| HP Printers | 7 | 7 | 7 |
| All Supported Monitors | • | · · | • |
| | | | • |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.8", and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.3" ISO images from http://www.hp.com/support/xw4600; Select "download drivers and software".

footnote 3 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later and SLED11 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 4 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

ootnote 5 - Hardware RAID is supported using the LSI 3041E (RAID 0,1 SAS Only). SATA RAID is not supported.

footnote 6 - The xw4600 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 7 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net

HP xw9400 Workstation

Originally certified with RHEL 3 Update 8 (x86_64), RHEL4 Update 4 (x86 & x86_64), RHEL5 (x86 & x86_64), and SLED 11 (x86_64)

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| Product Items/Features | | | RHEL DT 5 or later (x86 | SLED11 or later |
|---|--|---------------|-------------------------|-----------------|
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | (x86 & EM64T) | (x86 & EM64T) | & x86 64) | (x86 64) |
| HP Workstation Base System Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | | | • |
| Localization Kit (See footnote 1) | • | • | • | • |
| HP Localization Kit | • | • | • | • |
| Software Provide Outline Outline Continues | | 1 | T T | |
| Remote Graphics Software All Supported Processors | • | • | • | • |
| Hyperthreading | | | | |
| Single-Core Opteron | • | • | • | • |
| Dual-core Opteron (1.8GHz, 2.0GHz, 2.2GHz, 2.4GHz, 2.6GHz, and 2.8GHz) | • | • | • | • |
| Quad-core Opteron (2.1GHz, 2.2GHz, 2.3GHz, 2.4GHz, 2.5GHz, 2.7GHz, 2.8GHz, 2.9GHz, | | | | |
| 3.1GHz) Graphics Card (Video Card) (See footnote 2) | | 9 | 9 | 9 |
| No Graphics Card | • | • | • | • |
| NVIDIA Quadro NVS 285 | • | • | • | • |
| NVIDIA Quadro NVS 290 | | • | • | • |
| NVIDIA Quadro NVS 295 NVIDIA Quadro NVS 450 | | • | • | • |
| NVIDIA Quadro FX370 | | : | • | <u> </u> |
| NVIDIA Quadro FX380 | | • | • | • |
| NVIDIA Quadro FX560 | • | • | • | • |
| NVIDIA Quadro FX570 | | • | • | • |
| NVIDIA Quadro FX580 | | • | • | • |
| NVIDIA Quadro FX1500 | • | • | • | • |
| NVIDIA Quadro FX1700 NVIDIA Quadro FX1800 | | • | • | • |
| NVIDIA Quadro FX1800 NVIDIA Quadro FX3500 | • | • | • | <u> </u> |
| NVIDIA Quadro FX3700 | • | • | • | • |
| NVIDIA Quadro FX3800 | | • | • | • |
| NVIDIA Quadro FX4500 | • | • | • | • |
| NVIDIA Quadro FX4600 NVIDIA Quadro FX4800 | 7 | 7 | 7 | • |
| NVIDIA Quadro FX4600 | • | • | • | • |
| NVIDIA Quadro FX5600 | • | • | • | • |
| NVIDIA Quadro FX5800 | | • | • | • |
| G-Card (to be used with the FX4500) | • | • | • | • |
| SLI Graphics Connector ATI v3300 PCIe | | | | |
| ATI v3350 PCIe | | | | |
| ATI v7200 PCIe | | | | |
| ATI v3700 PCIe - Single Card Supported | | • | • | • |
| ATI v5600 PCIe ATI v5700 PCIe - Single Card Supported | | • | • | • |
| ATI v7700 PCIe | | | - | |
| ATI v7750 PCIe - Single Card Supported | | • | • | • |
| System RAM | 100 | 100 | 1 405 | 100 |
| Minimum (GB) Maximum (GB) | 1GB 64GB | 1GB 64GB | 1GB 64GB | 1GB 64GB |
| Hard Disks | 0408 | 0405 | 0400 | 0400 |
| All Supported SAS Disk Drives | 4 | 4 | 4 | 4 |
| All Supported SSD Disk Drives | | | | |
| All Supported SATA Disk Drives All Supported USB Drive Keys | 4 | 4 | 4 | 4 |
| Network Cards (no modem support) | • | <u> </u> | · | <u> </u> |
| Broadcom 5751 PCIe | • | | • | • |
| Intel Pro 1000 GT Gigabit PCI | • | • | • | • |
| Onboard Components Onboard LAN eth0 - Nvidia | | | | |
| Onboard LAN ethu - Nvidia Onboard LAN eth1 - Nvidia | <u> </u> | • | • | • |
| Onboard Audio | 6 | • | • | • |
| Onboard SATA/SAS RAID | 5 | 5 | 5 | 5 |
| Add Ons | | 1 | 1 | |
| IEEE 1394 A/B PCI Card Creative Sound Blaster Audigy 2 ZS | - | | | |
| LSI 8344 | | 5 | 5 | 5 |
| LSI 8888 ELP | | 5 | 5 | 5 |
| Removable CD/DVD Media | | | 1 | |
| HP 48x CD-ROM Drive HP 16x DVD-ROM Drive | <u> </u> | • | • | • |
| HP 48x DVD/CDRW Combo | | • | • | <u> </u> |
| HP 16x dual-layer DVD+RW | 3 | 3 | 3 | 3 |
| HP BD-RE (Writer) | • | • | • | • |
| Input/Output Devices (no spaceball support) | | 1 | 1 | |
| HP 3-Button Mouse, PS/2 | <u> </u> | : | • | • |
| HD Scroll Mouse PS/2 | | | • | <u> </u> |
| HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB | | • | | |
| HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS2 | • | • | • | • |
| HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS2 TPM Module/ Smart Card | • | | | |
| HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS2 TPM Module/ Smart Card 22 in 1 Card Reader | • | • | • | • |
| HP Optical Scroll Mouse, USB HP Standard Keyboard, USB/PS2 TPM Module/ Smart Card | • | | | |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 8" ISO images from http://www.hp.com/support/xw9400; Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> "Install Guide for Red Hat Linux on HP Linux Workstations'.

footnote 3 - Linux growisofs supports DVD+RW and Blu-ray media on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, please visit www.lightscribe.com for software to enable the labeling feature.

footnote 4 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 5 - Hardware RAID is supported using the LSI 8344 ELP (RAID 0,1, 5 SAS only), LSI 8888 ELP (RAID 0,1, 5 SAS only), and Onboard SAS RAID (RAID 0,1). SATA RAID is not supported.

footnote 6 - For RHEL3 U8, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw9400. For RHEL4, use the built-in ALSA Sound Support.

footnote 7 - The NVIDIA graphics driver works very well. Vesa driver has issues with this card.

footnote 8 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net.

footnote 9 - NVIDIA Drivers (169.17/173.14/177.61) do not work on RHEL4.x and 5.x 32bit. NVIDIA Drivers (169.17/173.14/177.61) will work on RHEL4.x and 5.x 64bit. NVIDIA Driver 177.82 or newer will work on both RHEL4.x and RHEL5.x (32/64bit).

HP xw8400 Workstation

Originally certified with RHEL 3 Update 7 (x86 & x86_64), RHEL4 Update 3 (x86 & x86_64), and RHEL5 (x86 & x86_64)

| This page is not complete | e without the General Notes (f | irst page of the matrix). | | |
|--|--------------------------------|----------------------------------|--|-----------------------------------|
| Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) | RHEL WS 3 U7 or later (x86) | RHEL WS 3 U7 or later (EM64T) | RHEL WS 4 U5 or later (x86 & EM64T) | RHEL DT 5 or later (x86 & x86 64) |
| HP Workstation Base System | | | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | | • | • |
| Localization Kit (See footnote 1) | | | | |
| HP Localization Kit | • | • | • | • |
| Software | | | | |
| Remote Graphics Software | • | • | | |
| All Supported Processors | | | | |
| All Supported Processors (1 & 2 CPU configs) | • | • | • | • |
| Hyperthreading | | | | |
| Graphics Card (Video Card) (See footnote 3) | | | | |
| No Graphics Card | • | • | • | • |
| NVIDIA Quadro NVS 285 | • | • | • | • |
| NVIDIA Quadro NVS440 | | | 2 | 2 |
| NVIDIA Quadro FX560 | • | • | • | • |
| NVIDIA Quadro FX1500 | • | • | • | • |
| NVIDIA Quadro FX3500 | • | • | • | • |
| NVIDIA Quadro FX4500 | • | • | • | • |
| NVIDIA Quadro FX4600 | 9 | 9 | 9 | 9 |
| NVIDIA Quadro FX5500 | • | • | • | • |
| G-Card (to be used with the FX4500) | • | • | • | • |
| SLI Graphics Connector | | | | |
| ATI v3300 PCIe | • | • | | |
| ATI v3350 PCIe | • | • | | |
| ATI v7200 PCle | • | • | | |
| System RAM | | | | |
| Minimum (MB) | 512 | 512 | 512 | 512 |
| Maximum | 32GB | 32GB | 32GB | 32GB |
| Hard Disks | | | | |
| All Supported SAS Disk Drives | 6 | 6 | 6 | 6 |
| All Supported SATA Disk Drives | 6 | 6 | 6 | 6 |
| All Supported USB Drive Keys | • | • | • | • |
| Network Cards (no modem support) | | | | |
| Broadcom 5751 PCle | • | • | • | • |
| Intel Pro 1000 GT Gigabit PCI | • | • | • | • |
| Onboard Components | | | | |
| Onboard LAN - Broadcom 5752 10/100/1000 | • | • | • | • |
| Onboard Audio | 8 | 8 | 8 | 8 |
| Onboard SATA/SAS RAID | | | 5 | 5 |
| Add Ons | | | | |
| IEEE 1394 PCI Card | | | 1 | |
| SATA Controllers | | | | |
| Creative Sound Blaster Audigy 2 ZS | | | 1 | _ |
| LSI 8344 | | | 5 | 5 |
| Hardware RAID | | | 5 | 5 |
| Removable CD/DVD Media | | | | |
| HP 48x CD-ROM Drive | • | • | • | • |
| HP 16x DVD-ROM Drive | • | • | • | • |
| HP 48x DVD/CDRW Combo | • | • | • | • |
| HP 16x dual-layer DVD+RW | 4 | 4 | 4 | 4 |
| Input/Output Devices (no spaceball support) | | | | _ |
| HP 3-Button Mouse, PS/2 | 7 | 7 | 7 | 7 |
| HP Scroll Mouse, PS/2 | 7 | 7 | 7 | 7 |
| HP Optical Scroll Mouse, USB | 7 | 7 | 7 | 7 |
| HP Standard Keyboard, USB | 7 | 7 | 7 | 7 |
| Modular Keyboard/ TPM Module/ Smart Card | | | 1 | |
| All Supported Monitors | • | • | • | • |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 8" ISO images from http://www.hp.com/support/xw8400; Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual ->"Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Hardware RAID is supported using the LSI 8344 ELP (RAID 0,1, 10 SAS Only) and Onboard SAS RAID (RAID 0,1,). SATA RAID is not supported.

footnote 6 - Mixed hard drives are not offered on the preload. Use SATA or SAS, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 7 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 8 - For RHEL3 U8, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw8400. For RHEL4, use the built-in ALSA Sound Support.

footnote 9 - The accelerated graphics works very well. Vesa driver has issues with this card.

HP xw6400 Workstation

Originally certified with RHEL 3 Update 7 (x86 & x86_64), RHEL4 Update 3 (x86 & x86_64), and RHEL5 (x86 & x86_64)

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| This page is not comp | piete without the General Notes | | | |
|---|---------------------------------|-----------------------|--|---------|
| Product Items/Features | RHEL WS 3 U7 or later (x86) | RHEL WS 3 U7 or later | RHEL WS 4 U5 or later (x86 & | |
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | Title Tree of a later (xee) | (EM64T) | EM64T) | x86 64) |
| HP Workstation Base System | | | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • | • |
| Localization Kit (See footnote 1) | | | | |
| HP Localization Kit | • | • | • | • |
| Software | | | | |
| Remote Graphics Software | • | • | | |
| All Supported Processors | | | | |
| All Supported Processors (1 & 2 CPU configs) | • | • | • | • |
| Hyperthreading | | | | |
| Graphics Card (Video Card) (See footnote 3) | | | | |
| No Graphics Card | • | • | • | • |
| G-Card (to be used with the FX4500) | • | • | • | • |
| SLI Graphics Connector | | | | |
| NVIDIA Quadro NVS285 | | • | • | • |
| NVIDIA Quadro NVS440 | - | - | • | • |
| NVIDIA Quadro FX560 | | • | • | • |
| NVIDIA Quadro FX1500 | · | • | | • |
| NVIDIA Quadro FX3500 | · | • | | • |
| NVIDIA Quadro FX4500 | · | • | | • |
| NVIDIA Quadro FX4500 NVIDIA Quadro FX4600 | 9 | 9 | 9 | 9 |
| ATI v3300 PCIe | • | • | 9 | 9 |
| ATI v3350 PCIe | • | : | | |
| | - | • | | |
| ATI v7200 PCIe | • | • | | |
| System RAM | 540 | 540 | T 540 | 540 |
| Minimum (MB) | 512 | 512 | 512 | 512 |
| Maximum | 16GB | 16GB | 16GB | 16GB |
| Hard Disks | | | | |
| All Supported SAS Disk Drives | | | | |
| All Supported SATA Disk Drives | 6 | 6 | 6 | 6 |
| All Supported USB Drive Keys | • | • | • | • |
| Network Cards (no modem support) | | | | |
| Broadcom 5751 PCIe | • | • | • | • |
| Onboard Components | | | | |
| Onboard LAN - Broadcom 5752 10/100/1000 | • | • | • | • |
| Onboard Audio | 8 | 8 | 8 | 8 |
| Onboard SATA RAID | | | 5 | 5 |
| Add Ons | | | | |
| LSI 3041E SAS Card | • | • | • | • |
| IEEE 1394 PCI Card | | | | |
| SATA Controllers | | | | |
| Creative Sound Blaster Audigy 2 ZS | | | | |
| Hardware RAID | | | 5 | 5 |
| Removable CD/DVD Media | | | | |
| HP 48x CD-ROM Drive | • | • | • | • |
| HP 16x DVD-ROM Drive | • | • | • | • |
| HP 48x DVD/CDRW Combo | • | • | • | • |
| HP 16x dual-layer DVD+RW | 4 | 4 | 4 | 4 |
| Input/Output Devices (no spaceball support) | | | | |
| HP 3-Button Mouse, PS/2 | 7 | 7 | 7 | 7 |
| HP Scroll Mouse, PS/2 | 7 | 7 | 7 | 7 |
| HP Optical Scroll Mouse, USB | 7 | 7 | 7 | 7 |
| HP Standard Keyboard, USB | 7 | 7 | 7 | 7 |
| Modular Keyboard/ TPM Module/ Smart Card | | | | |
| All Supported Monitors | • | • | • | • |
| | | | • | |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 8" ISO images from http://www.hp.com/support/xw6400; Select *download drivers and software*; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Hardware RAID is supported using the LSI 3041E card (RAID 0,1 SAS Only). SATA RAID is not supported.

tootnote 6 - Mixed hard drives are not offered on the preload. Use SATA or SAS, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 7 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 8 - For RHEL3 U8, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw8400. For RHEL4, use the built in ALSA Sound Support.

footnote 9 - The accelerated graphics works very well. Vesa driver has issues with this card.

HP xw4550 Workstation

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| . • | ie General Notes (ilist page of the matrix). | |
|--|--|---|
| Product Items/Features | RHEL WS 4.6 or later (x86 & EM64T) | RHEL DT 5.1 or later (x86 & x86_64) |
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | 111122 110 110 01 1ato: (x00 a 21110 11) | 11.122 2 1 011 01 1410. (X00 4 X00_0 1) |
| HP Workstation Base System | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • |
| Localization Kit (See footnote 1) | | |
| HP Localization Kit | • | • |
| Software | <u>_</u> | |
| Remote Graphics Software | | |
| All Supported Processors | | |
| All Supported Processors (1 & 2 CPU configs) | • | • |
| Graphics Card (Video Card) (See footnote 2) | | |
| ATI x1250 Onboard Graphics | • | • |
| No Graphics Card | • | • |
| NVIDIA Quadro NVS 290 | • | • |
| NVIDIA Quadro FX370 | • | • |
| NVIDIA Quadro FX570 | • | • |
| NVIDIA Quadro FX1700 | • | • |
| NVIDIA Quadro FX4600 | | |
| ATI v5600 PCIe | | |
| System RAM | | |
| Minimum (MB) | 1GB | 1GB |
| Maximum | 4GB | 1GB 4GB |
| | 4GB | 4GB |
| Hard Disks | | |
| All Supported SATA Disk Drives | 5 | 5 |
| All Supported USB Drive Keys | • | • |
| Network Cards (no modem support) | | |
| Broadcom 5751 PCle | | |
| Onboard Components | | |
| Onboard LAN - Broadcom 5755 10/100/1000 | • | • |
| Onboard Audio | • | • |
| Onboard SATA RAID | 6 | 6 |
| Add Ons | | |
| IEEE 1394 PCI Card | | |
| Creative Sound Blaster X-Fi | | |
| Removable CD/DVD Media | | |
| HP 16x DVD-ROM Drive | • | • |
| HP 16x dual-layer DVD+RW | 4 | 4 |
| Input/Output Devices (no spaceball support) | | |
| HP 3-Button Mouse, PS/2 | | |
| | 7 | 7 |
| HP Scroll Mouse, PS/2 | 7 7 | 7 |
| | | |
| HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB HP Standard Keyboard, USB | 7 | 7 |
| HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB | 7 7 | 7 7 |
| HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB HP Standard Keyboard, USB | 7 7 | 7 7 |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English.

footnote 2 - Get the latest drivers, "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 4.6", and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 5.1" ISO images from http://www.hp.com/support/xw4550; Select "download drivers and software".

footnote 3 - 290 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 6 - Hardware RAID is not supported on the xw4550.

footnote 7 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 8 - For more info about Linux driver support for HP printers, please visit http://www.hplip.net

HP xw4400 Workstation

Originally certified with RHEL 3 Update 8 (x86 & x86_64), RHEL4 Update 4 (x86 & x86_64), and RHEL5 (x86 & x86_64)

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| i his page is not complete without the General Notes (first page of the matrix). | | | | | | |
|--|-----------------------------|-----------------------|----------------------------|---------------------------|--|--|
| Product Items/Features | RHEL WS 3 U8 or later (x86) | RHEL WS 3 U8 or later | RHEL WS 4 U5 or later (x86 | RHEL DT 5 or later (x86 & | | |
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | RHEL WS 3 U8 OF later (x86) | (EM64T) | & EM64T) | x86 64) | | |
| HP Workstation Base System | | | | | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • | • | | |
| Localization Kit (See footnote 1) | | | | | | |
| HP Localization Kit | • | • | • | • | | |
| Software | | | | | | |
| Remote Graphics Software | • | • | | | | |
| All Supported Processors | | | | | | |
| All Supported Processors (1 & 2 CPU configs) | • | • | • | • | | |
| Hyperthreading | • | • | • | • | | |
| Graphics Card (Video Card) (See footnote 2) | | | | | | |
| No Graphics Card | • | • | • | • | | |
| NVIDIA Quadro NVS 285 | • | • | • | • | | |
| NVIDIA Quadro NVS440 | | | • | • | | |
| NVIDIA Quadro FX560 | | • | • | • | | |
| NVIDIA Quadro FX1500 | | • | • | • | | |
| NVIDIA Quadro FX3500 | | • | • | • | | |
| NVIDIA Quadro FX4500 | • | • | • | • | | |
| NVIDIA Quadro FX4600 | 11 | 11 | 11 | 11 | | |
| G-Card (to be used with the FX4500) | • | • | • | • | | |
| SLI Graphics Connector | | | | | | |
| ATI v3300 PCIe | | • | | | | |
| ATI v3350 PCIe | | | <u> </u> | | | |
| | • | • | | | | |
| ATI v7200 PCle | • | • | | | | |
| System RAM | | | | | | |
| Minimum (MB) | 512 | 512 | 512 | 512 | | |
| Maximum | 8GB | 8GB | 8GB | 8GB | | |
| Hard Disks | | | | | | |
| All Supported SAS Disk Drives | 5 | 5 | 5 | 5 | | |
| All Supported SATA Disk Drives | 5.7 | 5.7 | 5.7 | 5.7 | | |
| All Supported USB Drive Keys | • | • | • | • | | |
| Network Cards (no modem support) | | | | | | |
| Broadcom 5751 PCIe | | • | • | • | | |
| Onboard Components | | | | | | |
| Onboard LAN - Broadcom 5755 10/100/1000 | 2 | 2 | 2 | 2 | | |
| Onboard Audio | 10 | 10 | 10 | 10 | | |
| Onboard SATA RAID | | | 6 | 6 | | |
| Add Ons | | | | | | |
| LSI 3041E SAS Card | • | • | • | • | | |
| IEEE 1394 PCI Card | | | | | | |
| All non-RAID U320 SCSI Controllers | • | • | • | • | | |
| SATA Controllers | | • | | | | |
| Creative Sound Blaster Audigy 2 ZS | | <u> </u> | | - | | |
| Hardware RAID | | · | 6 | 6 | | |
| Removable CD/DVD Media | | | | | | |
| HP 48x CD-ROM Drive | • | • | • | • | | |
| HP 16x DVD-ROM Drive | • | • | • | • | | |
| HP 48x DVD/CDRW Combo | • | • | • | • | | |
| HP 16x dual-layer DVD+RW | 4 | 4 | 4 | 4 | | |
| Input/Output Devices (no spaceball support) | | | | | | |
| HP 3-Button Mouse, PS/2 | 9 | 9 | 9 | 9 | | |
| HP Scroll Mouse, PS/2 | 9 | 9 | 9 | 9 | | |
| HP Optical Scroll Mouse, USB | 9 | 9 | 9 | 9 | | |
| HP Standard Keyboard, USB | 9 | 9 | 9 | 9 | | |
| Modular Keyboard/ TPM Module/ Smart Card | | | | | | |
| All Supported Monitors | • | • | • | • | | |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China(PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 8" ISO images from http://www.hp.com/support/xw4400; Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/inux_user_manual -> "Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 3 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> "Multi-Monitor Configurations on HP Linux Workstations".

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. Mixed drives are offered on the HPIKL (FreeDos) configuration.

footnote 6 - Hardware RAID is supported using the LSI 3041E Card (RAID 0,1 SAS Only). SATA RAID is not supported.

footnote 7 - The xw4400 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 10 - For RHEL3 U8, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw4400. For RHEL4, use the built-in ALSA Sound Support.

footnote 11 - The accelerated graphics works very well. Vesa driver has issues with this card.

HP xw9300 Workstation

Originally certified with RHEL 3 Update 5 (x86), RHEL3 Update 4 (x86_64), and RHEL4 Update 1 (x86 & x86_64)

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|--|-------------------------------------|-----------------------|----------------------------|
| Product Items/Features | RHEL WS 3 U7 or later (x86) | RHEL WS 3 U7 or later | RHEL WS 4 U3 or later (x86 |
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) | KITEE WOO OF OF Intel (XOO) | (EM64T) | & EM64T) |
| HP Workstation Base System | | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • |
| Localization Kit (See footnote 1) | | | |
| HP Localization Kit | • | • | • |
| Software | | | |
| Remote Graphics Software | • | • | • |
| All Supported Processors | | | |
| All Supported Processors (1 & 2 CPU configs) | • | • | • |
| Hyperthreading | | | |
| Dual-core Opteron (2.0GHz, 2.2GHz, 2.4GHz and 2.8GHz) | • | • | • |
| Graphics Card (Video Card) (See footnote 2) | | | |
| No Graphics Card | | • | • |
| NVIDIA Quadro FX3400 256MB PCIe | • | • | • |
| NVIDIA Quadro FX3450 256MB PCIe | • | • | • |
| NVIDIA Quadro FX4500 256MB PCIe | • | • | • |
| G-Card (to be used with the FX4500) | | | |
| NVIDIA Quadro NVS 280 64MB PCI (See footnote 3) | | | |
| NVIDIA Quadro NVS 280 64MB PCIe | • | • | • |
| NVIDIA Quadro NVS 285 64MB PCIe | • | • | • |
| NVIDIA Quadro FX540 | • | • | • |
| NVIDIA Quadro FX1400 | • | • | • |
| NVIDIA Quadro NVS400 | | | |
| NVIDIA Quadro NVS440 PCIe | | | |
| SLI Graphics Connector | 5 | 5 | 5 |
| ATI v3100 PCIe | - | | |
| ATI v5100 PCIe | | | |
| System RAM | | | |
| Minimum (MB) | 1GB | 1GB | 1GB |
| Maximum | 32GB | 32GB | 32GB |
| Hard Disks | OZ OB | 0200 | 0200 |
| All Supported SCSI Disk Drives | 6 | 6 | 6 |
| All Supported SATA Disk Drives | 6,8 | 6,8 | 6,8 |
| All Supported USB Drive Keys | • | • | • |
| Network Cards (no modem support) | • | • | • |
| Broadcom 5782 NetXtreme Gigabit PCI | • | • | · • |
| Broadcom 5751 PCIe | 9 | 9 | 9 |
| Intel Pro 1000 MT Gigabit PCI | 9 | 9 | 9 |
| Intel Pro 1000 GT Gigabit PCI | • | • | . |
| Onboard Components | • | • | • |
| Onboard LAN - Nvidia | • | • | · • |
| Onboard Audio | • | • | • |
| Onboard SATA RAID | 7 | 7 | 7 |
| Add Ons | / | | , |
| IEEE 1394 PCI Card | | | 1 |
| All non-RAID U320 SCSI Controllers | • | • | . |
| SATA Controllers | • | • | • |
| Creative Sound Blaster Audigy 2 ZS | | | |
| | 7 | 7 | 7 |
| Hardware RAID | | / | |
| Removable CD/DVD Media | | | T |
| HP 48x CD-ROM Drive | • | • | • |
| HP 16x DVD-ROM Drive | • | • | • |
| HP 48x CD/RW Drive | • | • | • |
| HP 48x DVD/CDRW Combo | • | 4 | • |
| | | Δ | 4 |
| HP 16x dual-layer DVD+RW | 4 | - | · · |
| Input/Output Devices (no spaceball support) | | | 10 |
| Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 | 10 | 10 | 10 |
| Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 HP Scroll Mouse, PS/2 | 10 10 | 10 10 | 10 |
| Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB | 10 10 10 | 10 10 10 | 10 10 |
| Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB HP Otandard Keyboard, USB | 10 10 | 10 10 | 10 |
| Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB | 10 10 10 | 10 10 10 | 10 10 |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw9300; Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 3 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - The SLI Graphics Connector is offered on the HPIKL (FreeDOS) configuration.

footnote 6 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 7 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card, LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID.

footnote 8 - The xw9300 is capable of supporting up to 4 SATA drives. The xw4300 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 9 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 10 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

HP xw4300 Workstation

Originally certified with RHEL 3 Update 5 (x86 & x86_64), and RHEL4 Update 1 (x86 & x86_64)

This page is not complete without the General Notes (first page of the matrix).

| Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) | RHEL WS 3 U7 or later (x86) | RHEL WS 3 U7 or later (EM64T) | RHEL WS 4 U3 or later (x86 & EM64T) |
|--|--|----------------------------------|--|
| HP Workstation Base System | | (2 | G EMOTT, |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • |
| Localization Kit (See footnote 1) | | | |
| HP Localization Kit | • | • | • |
| Software | | | |
| Remote Graphics Software | • | • | |
| All Supported Processors | | | |
| All Supported Processors (1 & 2 CPU configs) | • | • | • |
| Hyperthreading | | • | |
| Graphics Card (Video Card) (See footnote 2) | | - | - |
| No Graphics Card | • | • | • |
| NVIDIA Quadro FX3400 256MB PCIe | • | • | • |
| NVIDIA Quadro FX3450 256MB PCIe | • | • | • |
| NVIDIA Quadro FX4500 256MB PCIe | • | • | • |
| G-Card (to be used with the FX4500) | • | • | • |
| | | | |
| NVIDIA Quadro NVS 280 64MB PCI (See footnote 3) | • | • | • |
| NVIDIA Quadro NVS 280 64MB PCIe | • | • | • |
| NVIDIA Quadro NVS 285 64MB PCIe | • | • | • |
| NVIDIA Quadro FX540 | • | • | • |
| NVIDIA Quadro FX1400 | • | • | • |
| NVIDIA Quadro NVS400 | | | |
| NVIDIA Quadro NVS440 PCIe | | | |
| SLI Graphics Connector | | | |
| ATI v3100 PCIe | • | • | • |
| ATI v5100 PCIe | 8 | 8 | 8 |
| | 8 | 8 | 8 |
| System RAM | | | |
| Minimum (MB) | 512 | 512 | 512 |
| Maximum | 8GB | 8GB | 8GB |
| Hard Disks | | | |
| All Supported SCSI Disk Drives | 5 | 5 | 5 |
| All Supported SATA Disk Drives | 5,7 | 5,7 | 5,7 |
| All Supported USB Drive Keys | • | • | • |
| Network Cards (no modem support) | • | | |
| Broadcom 5782 NetXtreme Gigabit PCI | • | • | |
| Broadcom 5751 PCIe | · | • | |
| Intel Pro 1000 MT Gigabit PCI | • | • | • |
| Intel Pro 1000 GT Gigabit PCI | 11 | 11 | 11 |
| Onboard Components | 11 | | |
| Onboard LAN - Broadcom 5751 10/100/1000 | 2 | 2 | 2 |
| Onboard Audio | 10 | 10 | 10 |
| Onboard SATA RAID | 6 | 6 | 6 |
| Add Ons | Ü | | |
| IEEE 1394 PCI Card | | | I |
| All non-RAID U320 SCSI Controllers | • | • | • |
| SATA Controllers | • | • | • |
| Creative Sound Blaster Audigy 2 ZS | | | |
| Hardware RAID | 6 | 6 | 6 |
| Removable CD/DVD Media | Ů | 0 | |
| HP 48x CD-ROM Drive | • | • | |
| HP 16x DVD-ROM Drive | · | • | |
| HP 48x CD/RW Drive | | • | <u> </u> |
| HP 48x DVD/CDRW Combo | • | • | • |
| HP 16x dual-layer DVD+RW | 4 | 4 | 4 |
| Input/Output Devices (no spaceball support) | 4 | 4 | 4 |
| HP 3-Button Mouse, PS/2 | 9 | 9 | 9 |
| HP Scroll Mouse, PS/2 | 9 | 9 | 9 |
| | | | J |
| HP Ontical Scroll Mouse LISB | | | ۵ |
| HP Optical Scroll Mouse, USB | 9 | 9 | 9 |
| HP Standard Keyboard, USB | | | 9 |
| | 9 | 9 | |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw4300; Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> "Install Guide for Red Hat Linux on HP Linux Workstations"

footnote 3 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 6 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card, LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-base

footnote 7 - The xw4300 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 8 - The ATI v5100 is not supported due to Vesa driver issues during install. Please refer to the Release Notes Chapter in http://www.hp.com/support/linux_user_manual for instructions on how to install the ATI driver.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

footnote 10 - For RHEL3 U5, download the ALSA Sound Support softpaq from http://www.hp.com/support/xw4300. For RHEL4, use the built-in ALSA Sound Support.

footnote 11 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

HP xw8200 Workstation

Originally certified with RHEL 3 Update 2 (x86 & x86_64), and RHEL4 Initial (x86 & x86_64)

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|--|--------------------------------|----------------------------------|---|-------------|-------------|
| Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) | RHEL WS 3 U7 or later (x86) | RHEL WS 3 U7 or later (EM64T) | RHEL WS 4 U3 or later (x86 & EM64T) | Red Hat 7.2 | Red Hat 7.3 |
| HP Workstation Base System | | | LINOTI | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | | | | | |
| Localization Kit (See footnote 1) | · | <u> </u> | <u> </u> | · | • |
| HP Localization Kit | | | | • | • |
| Software | | | | | |
| Remote Graphics Software | | | ' | | |
| All Supported Processors | | | | | |
| All Supported Processors (1 & 2 CPU configs) | • | • | • | • | • |
| Hyperthreading | • | • | • | | |
| Graphics Card (Video Card) (See footnote 3) | | | 1 | | |
| No Graphics Card | • | • | • | • | • |
| NVIDIA Quadro FX330 64MB PCIe | • | • | • | • | • |
| NVIDIA Quadro FX1300 128MB PCIe | • | • | • | • | • |
| NVIDIA Quadro FX3400 256MB PCIe | • | • | • | • | • |
| NVIDIA Quadro FX3450 256MB PCIe | • | • | • | | |
| NVIDIA Quadro FX4500 256MB PCIe | • | • | • | | |
| G-Card (to be used with the FX4500) | | | | | |
| NVIDIA Quadro NVS 280 64MB PCI (See footnote 5) | • | • | • | • | • |
| NVIDIA Quadro NVS 280 64MB PCIe | • | • | • | • | • |
| NVIDIA Quadro NVS 280 64MB PCIe | • | • | • | | |
| NVIDIA Quadro FX540 | • | • | • | • | • |
| NVIDIA Quadro FX1400 | • | • | • | • | • |
| NVIDIA Quadro NVS400 | | | | | |
| NVIDIA Quadro NVS440 PCle | | | | | |
| SLI Graphics Connector | | | | | |
| ATI v3100 PCle | • | • | • | | |
| ATI v5100 PCIe | 8 | 8 | 8 | | |
| System RAM | | 1 | | | 1 |
| Minimum (MB) | 512 | 512 | 512 | 512 | 512 |
| Maximum | 16GB | 16GB | 16GB | 4GB | 8GB |
| Hard Disks | _ | | | | - |
| All Supported SCSI Disk Drives | 7 | 7 | 7 | 7 | 7 |
| All Supported SATA Disk Drives | 7 | 7 | 7 | | |
| All Supported USB Drive Keys Network Cards (no modem support) | • | <u> </u> | • | | |
| Broadcom 5782 NetXtreme Gigabit PCI | | | | 2 | 2 |
| Broadcom 5751 PCIe | 2 | 2 | 2 | 2 | 2 |
| Intel Pro 1000 MT Gigabit PCI | • | • | • | 2 | 2 |
| Intel Pro 1000 WT Gigabit PCI | +-:- | • | | 2 | 2 |
| Onboard Components | • | • | - | 2 | |
| Onboard LAN - Intel 10/100/1000 | | | | | |
| Onboard Audio | • | • | • | | • |
| Onboard SATA RAID | 6 | 6 | 6 | 6 | 6 |
| Add Ons | | | | <u> </u> | , , |
| IEEE 1394 PCI Card | | | | | |
| All non-RAID U320 SCSI Controllers | • | • | • | • | • |
| SATA Controllers | | | | | |
| LSI 3041 SAS/SATA Controller | | | | | |
| Creative Sound Blaster Audigy 2 ZS | | | | | |
| Hardware RAID | 6 | 6 | 6 | 6 | 6 |
| Removable CD/DVD Media | | | | | |
| HP 48x CD-ROM Drive | • | • | • | • | • |
| HP 16x DVD-ROM Drive | • | • | • | • | • |
| HP 48x CD/RW Drive | • | • | • | • | • |
| HP 16x dual-layer DVD+RW | 4 | 4 | 4 | • | 4 |
| Input/Output Devices (no spaceball support) | | | | | |
| HP 3-Button Mouse, PS/2 | 9 | 9 | 9 | • | • |
| HP Scroll Mouse, PS/2 | 9 | 9 | 9 | • | • |
| HP Optical Scroll Mouse, USB | 9 | 9 | 9 | | |
| HP Standard Keyboard, USB | 9 | 9 | 9 | | |
| Modular Keyboard/ TPM Module/ Smart Card | 1 | 1 | 1 | í | 1 |
| All Supported Monitors | • | | | • | • |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw8200; Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 6 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card, LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID.

footnote 7 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 8 - The ATI v5100 is not supported due to Vesa driver issues during install. Please refer to the Release Notes Chapter in http://www.hp.com/support/linux_user_manual for instructions on how to install the ATI driver.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

HP xw6200 Workstation

Originally certified with RHEL 3 Update 2 (x86 & x86_64), and RHEL4 Initial (x86 & x86_64)

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| New North August 2015 (Charles) New North Roard, USB, Power Surphy, etc. | Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) | RHEL WS 3 U7 or later (x86) | RHEL WS 3 U7 or later (EM64T) | RHEL WS 4 U3 or later (x86 & EM64T) | Red Hat 7.2 | Red Hat 7.3 |
|--|--|--------------------------------|----------------------------------|---|-------------|-------------|
| Localization Mr. (See Notinote 1) | HP Workstation Base System | | | | | |
| ## Contagnizes (Services | Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • | • | • |
| Software | | | | | | |
| Semont Sorghics Software | | • | • | • | • | • |
| MS Supported Processors MS account of Proces | | | T | | | |
| AS Supported Processors (1.4.2 CPU configs) AS Supported Processors (1.4.4 CPU configs) AS Supported Processors (1.4.4 CPU configs) AS Supported Processors (1.4.4 CPU configs) AS Supported SCAS Dake Drives AT Visition Police AT Visitio | | • | • | | | |
| Hyperfirmsdaming | | | ı | | | |
| Significa Card (Video Card) (See footnote 3) | | | | | • | • |
| No Graphics Card NO Final Pole No No No No No No No N | | <u> </u> | • | • | | |
| NVIDIA Quadro FX330 e14MB PCIe NVIDIA Quadro FX4300 128MB PCIE | | | | | | |
| NIDIA Quadro FX400 (25MB PCIe | | | | | | |
| NVIDIA Quartor FX480 258MB PCIe | | | | | | |
| NVIDIA Clauder (FX4500 258MB PCIe | | | | | • | · |
| NIDIA Claudro FX4500 2504B PCIe | | | | | | |
| G-Card to be used with the FX4500 | | | • | • | • | • |
| NVIDIA Quardo NNS 280 64MB PCIe | | | | | | |
| NIDIA Quadro NNS 280 64MB PCIe NIDIA Quadro NNS 280 64MB PCIe NIDIA Quadro PX540 NIDIA Quadro NNS400 NIDIA Quadro NNS400 NIDIA Quadro NNS400 SIL Graphics Connector All Vision PCIe All Vision PCIe | | • | | • | • | |
| NVIDIA Quardo NS 285 64MB PCIe NVIDIA Quardo PS450 NVIDIA Quardo PS400 NVIDIA Quardo PS400 NVIDIA Quardo PS400 NVIDIA Quardo NS400 NVIDIA Quardo NS400 | | | | | - | |
| NVIDIA Cuardor EX1400 | | | | • | | |
| NVIDIA Cuardor EX1400 | | • | • | • | • | • |
| NVIDIA Quadro NVISA40 PCIe | | • | | • | • | • |
| SLI Graphies Connector | NVIDIA Quadro NVS400 | | | | | |
| ATI vis100 PCIe | NVIDIA Quadro NVS440 PCIe | | | | | |
| ATI V510 PCIcs System RAM Minimum (MB) 512 512 512 512 512 526 256 256 | SLI Graphics Connector | | | | | |
| System RAM | ATI v3100 PCle | • | • | • | | |
| Minimum (MB) | ATI v5100 PCle | 8 | 8 | 8 | | |
| Maximum | System RAM | | | | | |
| Hard Disks | Minimum (MB) | 512 | 512 | 512 | 256 | 256 |
| All Supported SCSI Disk Drives 7 7 7 7 7 7 7 All Supported SATA Disk Drives 7 7 7 7 7 7 7 All Supported USB Drive Keys 9 9 9 9 9 9 9 9 9 9 9 9 P 1 S All Supported Drives | | 8GB | 8GB | 8GB | 4GB | 8GB |
| All Supported SATA Disk Drives 7 | Hard Disks | | | | | |
| All Supported USB Drive Keys | All Supported SCSI Disk Drives | 7 | 7 | 7 | 7 | 7 |
| Network Cards (no modem support) | All Supported SATA Disk Drives | 7 | 7 | 7 | | |
| Broadcom 5782 NetXtreme Gigabit PCI | | • | • | • | | |
| Broadcom 5751 PCIe | | | 1 | | | |
| Intel Pro 1000 MT Gigabit PCI | | | | | | |
| Onboard Components Image: Component Strain (10/100/1000) Image: Component Strain (10/1000) Image: Component Strain | | • | • | | - | |
| Onboard LAN - Broadcom 5751 10/100/1000 • | | • | • | • | 2 | 2 |
| Onboard Audio • < | • | | T | | | |
| Comboard SATA RAID | | | - | | • | |
| Add Ons IEEE 1394 PCI Card | | | | | | |
| IEEE 1394 PCI Card | | 5 | 5 | 5 | 5 | 5 |
| All non-RAID U320 SCSI Controllers SATA Controllers Creative Sound Blaster Audigy 2 ZS Hardware RAID S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | | | 1 | | | |
| SATA Controllers | | | | | | |
| Creative Sound Blaster Audigy 2 ZS 5 | | • | • | • | • | • |
| Hardware RAID | | | | | | |
| Remote Graphics Software | | - | - | - | E | - |
| Removable CD/DVD Media HP 48x CD-ROM Drive | | 5 | 5 | 5 | 5 | 5 |
| HP 48x CD-ROM Drive HP 16x DVD-ROM Drive HP 48x CD/RW Drive HP 48x CD/RW Drive HP 48x CD/RW Drive HP 16x dual-layer DVD+RW 4 4 4 4 • 4 4 • 4 4 1 • 4 4 1 • 4 4 1 • 4 4 1 • 4 4 1 • 4 4 1 • 4 4 1 • 4 1 | | | | | | |
| HP 16x DVD-ROM Drive | | | _ | _ | | _ |
| HP 48x CD/RW Drive | | | | | | |
| HP 16x dual-layer DVD+RW 4 4 4 4 • 4 Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 9 9 9 • • • • • • • • • • • • • • • • | | | | | | |
| Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 9 9 9 • • HP Scroll Mouse, PS/2 9 9 9 • • • HP Coptical Scroll Mouse, USB 9 9 9 9 • <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | |
| HP 3-Button Mouse, PS/2 9 9 9 • HP Scroll Mouse, PS/2 9 9 9 • • HP Optical Scroll Mouse, USB 9 9 9 9 9 HP HP Standard Keyboard, USB 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 10 | | 4 | 4 | 4 | • | 4 |
| HP Scroll Mouse, PS/2 9 9 9 • • HP Optical Scroll Mouse, USB 9 9 9 9 HP Standard Keyboard, USB 9 9 9 9 Modular Keyboard/ TPM Module/ Smart Card 9 9 9 9 | | | <u> </u> | 0 | - | |
| HP Optical Scroll Mouse, USB 9 9 9 HP Standard Keyboard, USB 9 9 9 Modular Keyboard/ TPM Module/ Smart Card 9 9 9 | THE O DUCTOR WOUGH, TO/A | | 3 | J | • | • |
| HP Standard Keyboard, USB 9 9 9 Modular Keyboard/ TPM Module/ Smart Card 9 9 9 | | | ۵ | ۵ | - | _ |
| Modular Keyboard/ TPM Module/ Smart Card | HP Scroll Mouse, PS/2 | 9 | | | • | • |
| | HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB | 9 | 9 | 9 | • | • |
| | HP Scroll Mouse, PS/2 HP Optical Scroll Mouse, USB HP Standard Keyboard, USB | 9 | 9 | 9 | • | • |

footnote 1 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit.

footnote 3 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw6200; Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs supports DVD+RW on Red Hat ELWS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

footnote 5 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card, LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID.

footnote 6 - 285 NVS PCI card may be used alone or with another card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 7 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 8 - The ATI v5100 is not supported due to Vesa driver issues during install. Please refer to the Release Notes Chapter in http://www.hp.com/support/linux_user_manual for instructions on how to install the ATI driver.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

HP xw4200 Workstation

Originally certified with RHEL 3 Update 2 (x86 & x86_64), and RHEL4 Initial (x86 & x86_64)

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| | | | | İ | |
|--|--------------------------------|----------------------------------|---|-------------|-------------|
| Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) | RHEL WS 3 U7 or later (x86) | RHEL WS 3 U7 or later (EM64T) | RHEL WS 4 U3 or later (x86 & EM64T) | Red Hat 7.2 | Red Hat 7.3 |
| HP Workstation Base System | | | | | |
| Base system includes: Chassis, System Board, USB, Power Supply, etc. | • | • | • | • | • |
| Localization Kit (See footnote 3) | | | | | |
| HP Localization Kit (See 100thole 3) | • | • | • | • | • |
| Software | · | | | | |
| Remote Graphics Software | • | | | | |
| All Supported Processors | | - | | | |
| All Supported Processors (1 & 2 CPU configs) | | | | | |
| Hyperthreading | • | • | | - | - |
| Graphics Card (Video Card) (See footnote 1) | | | | | |
| No Graphics Card | • | • | • | • | • |
| NVIDIA Quadro FX330 64MB PCIe | • | • | • | • | • |
| NVIDIA Quadro FX1300 128MB PCIe | • | • | | • | • |
| NVIDIA Quadro FX3400 256MB PCIe | • | • | • | • | • |
| NVIDIA Quadro FX3450 256MB PCIe | | | | | |
| NVIDIA Quadro FX4500 256MB PCIe | | | | | |
| G-Card (to be used with the FX4500) | | | | | |
| NVIDIA Quadro NVS 280 64MB PCI (See footnote 4) | • | • | • | • | • |
| NVIDIA Quadro NVS 280 64MB PCIe | • | • | • | • | • |
| NVIDIA Quadro FX540 | • | • | • | • | • |
| NVIDIA Quadro FX1400 | • | • | • | • | • |
| NVIDIA Quadro NVS400 | | | | | |
| NVIDIA Quadro NVS440 PCIe | | | | | |
| SLI Graphics Connector | | | | | |
| ATI v3100 PCIe | • | • | • | | |
| ATI v5100 PCIe | 8 | 8 | 8 | | |
| System RAM | | | | | |
| Minimum (MB) | 512 | 512 | 512 | 128 | 128 |
| Maximum | 4GB | 4GB | 4GB | 4GB | 4GB |
| Hard Disks | | | | | |
| All Supported SCSI Disk Drives | 5 | 5 | 5 | 5 | 5 |
| All Supported SATA Disk Drives | 5,7 | 5,7 | 5,7 | | |
| All Supported USB Drive Keys | • | • | • | | |
| Network Cards (no modem support) | | | | | |
| Broadcom 5782 NetXtreme Gigabit PCI | • | • | • | • | • |
| Broadcom 5751 PCIe | • | • | • | • | • |
| Intel Pro 1000 MT Gigabit PCI | • | • | • | • | • |
| Onboard Components | | | | | |
| Onboard LAN - Broadcom 5751 10/100/1000 | • | • | • | • | • |
| Onboard Audio | • | • | • | • | • |
| Onboard SATA RAID | 6 | 6 | 6 | 6 | 6 |
| Add Ons | | | 1 | 1 | |
| IEEE 1394 PCI Card | | | | | |
| All non-RAID U320 SCSI Controllers | • | • | • | • | • |
| SATA Controllers | | | | | |
| Creative Sound Blaster Audigy 2 ZS | | _ | | | ^ |
| Hardware RAID | 6 | 6 | 6 | 6 | 6 |
| Removable CD/DVD Media | | | | | |
| HP 48x CD-ROM Drive | • | • | • | • | • |
| HP 16x DVD-ROM Drive | • | • | • | | • |
| HP 48x CD/RW Drive | • | • | • | • | • |
| HP 48x DVD/CDRW Combo HP 16x dual-layer DVD+RW | 2 | 2 | 2 | • | 2 |
| Input/Output Devices (no spaceball support) | | | | | |
| HP 3-Button Mouse, PS/2 | 9 | 9 | 9 | | |
| HP Scroll Mouse, PS/2 HP Scroll Mouse, PS/2 | 9 | 9 | 9 | • | • |
| HP Optical Scroll Mouse, USB | 9 | 9 | 9 | • | • |
| HP Standard Keyboard, USB | 9 | 9 | 9 | | |
| Modular Keyboard/ TPM Module/ Smart Card | 9 | 9 | 9 | | |
| All Supported Monitors | • | • | • | • | • |
| All Outported Monitors | | | | | • |

footnote 1 - Get the latest drivers and "HP Installer Kit for Linux - HP Driver CD for Red Hat Enterprise Linux 3 Update 5" ISO images from http://www.hp.com/support/xw4200; Select "download drivers and software"; Select OS; Select file to download. See also http://hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 2 - Linux growisofs supports DVD+RW on Red Hat EL WS 3 or later. For drives that have the Lightscribe functionality, the labeling functionality is not supported.

tootnote 3 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AB0 Taiwan, AK6 Europe A4, AC0 Belgium, ABS Sweden, ABB Int'l English).

footnote 4 - 280 NVS PCI card may be used alone or with another card. The SLI connector used to connect the graphic cards together will not be supported until RedHat delivers RHEL3 U6. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 5 - Mixed hard drives are not offered on the preload. Use SATA or SCSI, not both. We do offer mixed drives on the HPIKL (FreeDos) configuration.

footnote 6 - Hardware RAID is not supported on Linux systems; this includes the Promise SATA RAID Card, Onboard SATA Chipset RAID, Adaptec 2120S SCSI RAID Card, LSI 20320 A-R SCSI Card, Onboard SCSI Chipset RAID. The Linux kernel, with built-in software RAID, provides excellent functionality and performance. It is a good alternative to hardware-based RAID.

tootnote 7 -The xw4200 can support up to 4 SATA drives. To support the 3rd and 4th SATA drives, you must acquire the Optical Bay Conversion Kit for each drive.

footnote 8 - The ATI v5100 is not supported due to Vesa driver issues during install. Please refer to the Release Notes Chapter in http://www.hp.com/support/linux_user_manual for instructions on how to install the ATI driver.

footnote 9 - Keyboard/Mouse interface must be either PS2 or USB; mixing is not supported.

HP xw4100 Workstation

Originally certified with RHEL 3 Update 1

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| (Blank tox or unlisted means the component is NOT functional will as-is OS) | This page is not complete without the General Notes (that page of the matrix). | | | | | | | | |
|--|--|------------|--------------|-----------|-----------|-------------|-------------|-------------|--|
| Clear's Co. of Uninsiste Intensists the Component's No. Functional wayses Co. | Product Items/Features | EL WS 3 U1 | EL WS 3 pre- | Dod Hot 0 | Dod Hot 0 | Dod Hot 7.2 | Red Hat 7.3 | Bod Hot 7.2 | |
| Base system includes: Chassas, System Board, USB, Cables, etc. | | or later | install | Red Hat 9 | кей паго | Red Hat 7.3 | pre-install | Red Hat 7.2 | |
| Localization Kit (See footnote 1) | HP Workstation Base System (no IEEE-1394 support) | | | | | | | | |
| HP Localization Kit | Base system includes: Chassis, System Board, USB, Cables, etc. | • | • | • | • | • | 8 | • | |
| Operating Systems (See footnote 1) | Localization Kit (See footnote 5) | | | | | | | | |
| HP Installer CD for Red Hat Limux (May 2004) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | HP Localization Kit | • | • | • | • | • | 2,8 | • | |
| ## Difference Control Red Hall Enterprise Linux WS 3 (May 2004) | Operating Systems (See footnote 1) | | | | | | | | |
| Siz-bit Red Half Enterprise Linux WS 3 Pre-installed (Update 1 - May '0.4) | HP Installer CD for Red Hat Linux (May 2004) | | | 3 | 3 | 3 | | 3 | |
| Intel Pentlum/Xeon Processors (| HP Driver CD for Red Hat Enterprise Linux WS 3 (May 2004) | 3 | | | | | | | |
| All Supported Processors (1 & 2 CPU contings) | 32-bit Red Hat Enterprise Linux WS 3 Pre-installed (Update 1 - May '04) | | • | | | | | | |
| Hyperthreading | | | | | | • | | | |
| Graphies Card (Video Card) (See footnote 3) | All Supported Processors (1 & 2 CPU configs) | • | • | • | • | • | 8 | • | |
| Graphics Card (Video Card) (See footnote 3) | Hyperthreading | • | • | • | | | | | |
| No Graphics Card | | | | | | | | | |
| NVIDIA Clandrot 200 NtS e NtMB AGP | | | • | • | • | | 8 | • | |
| NVIDIA Quadro 4 200 NVS 64MB AGP | | • | • | | | | | | |
| NVIDIA Quadro NVS 280 64MB AGP | | 9 | 9 | 9 | 9 | 9 | | 9 | |
| INVIDIA Quadro NVS 280 64MB PCI | | | | | | | | | |
| NVIDIA Quadro NVS 400 128MB PCI | | | | | | | | | |
| NVIDIA Quadro4 380 XGL 64MB AGP | | Ť | - ŭ | · | - ŭ | | 0, 0 | | |
| ATI Fire GL T2-128 128MB AGP | | | | | | | 2.8 | | |
| NVIDIA Quadrot 980 XGL 128MB AGP | | | | | | | | | |
| ATI Fire GL X1 3D 128MB AGP ATI FIRE GL X1 3D 256MB AGP ATI FIRE GL X1 3D 256MB AGP NVIDIA Quadro FX2000 128MB AGP NVIDIA Quadro FX2000 128MB AGP • • • • • 2,8 NVIDIA Quadro FX1001 128MB AGP • • • • • 2,8 NVIDIA Quadro FX1100 128MB AGP • • • • • 2,8 System RAM Minimum (MB) 512 512 512 5256 556 128 128 128 128 128 128 148 148 148 148 148 159 159 151 151 151 151 151 151 151 151 | | | | | | | | | |
| ATT Fire GL X1 3D 256MB AGP | | + | | • | | · · · | 2,0 | | |
| INVIDIA Quadro FX2000 128MB AGP | | | | | | | | | |
| NVIDIA Quadro FX13000 258MB AGP | | | | | | | 2.0 | | |
| NUIDIA Quadro FX1100 128MB AGP | | | | | | | | | |
| System RAM | | | | | | | | | |
| Minimum (MB) | | • | • | | • | • | 2,0 | | |
| Maximum 4GB | | 510 | =10 | 0.50 | | 100 | 100 | | |
| Hard Disks (Preinstalled systems may only be ordered with one disk type: either SATA, SCSI, or IDE, not mixed.) All Supported EIDE ATA Disk Drives | | | | | | | | | |
| All Supported EIDE ATA Disk Drives | | | | 4GB | 4GB | 4GB | 4GB | 3GB | |
| All Supported non-RAID SCSI Controllers All Supported SCSI Disk Drives All Supported SATA Disk Drives HP Drive Key 128, 256MB Network Cards (no modem support) Integrated LAN - (Broadcom 57x2, or Intel Pro) Broadcom 5782 Card Intel Pro 1000 MT Removable CD/DVD Media HP 48x CD-ROM Drive HP 16x DVD-ROM Drive HP 48x CD-RW Drive HP 48x CD-RW Drive HP 48x DVD-RCM Drive HP 48x DVD-RCM Combo HP 48x DVD-RW doli Kit HP 48x DVD-RW 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | | | | | • | | | |
| All Supported SCSI Disk Drives All Supported SATA Disk Drives + • • • • 8 8 • 8 Network Cards (no modem support) Integrated LAN - (Broadcom 57x2,or Intel Pro) Broadcom 5782 Card • • • • • • 8 8 • 8 Broadcom 5782 Card Intel Pro 1000 MT • • • • • 2,8 Intel Pro 1000 MT Removable CD/DVD Media HP 48x CD-ROM Drive + P 48x DVD-CDRW Combo + P 48x DVD-CDRW Combo + P 48x DVD-CDRW Combo + P 48x DVD-ROW Drive + P 48x DVD-ROW Combo + P 48x DVD-ROW Combo + P 48x DVD-ROW Drive + P 8x DVD-ROW Combo + P 8x DVD-ROW Combo + P 8x DVD-ROW Drive + P 8x DVD-ROW Combo + P 8x DVD-ROW C | | | | | | | | | |
| All Supported SATA Disk Drives HP Drive Key 128, 256MB Network Cards (no modem support) Integrated LAN - (Broadcom 57x2,or Intel Pro) Broadcom 5782 Card Intel Pro 1000 MT Network Cards (no modem support) Intel Pro 1000 MT Network Cards (no modem support) Network Cards (| | | | | | | | | |
| HP Drive Key 128, 256MB | | • | • | • | • | • | 8 | • | |
| Network Cards (no modem support) | | | _ | | | | | | |
| Integrated LAN - (Broadcom 57x2, or Intel Pro) | | • | • | | | | 8 | | |
| Broadcom 5782 Card | | | | | | | | | |
| Intel Pro 1000 MT | | • | • | • | • | • | | • | |
| Removable CD/DVD Media | | • | • | • | | • | | | |
| HP 48x CD-ROM Drive | | • | • | • | • | • | 2,8 | | |
| HP 16x DVD-ROM Drive | | | | | | | | | |
| HP 48x CD-RW Drive | HP 48x CD-ROM Drive | • | • | • | • | • | 8 | • | |
| HP 48x DVD/CDRW Combo | HP 16x DVD-ROM Drive | • | • | • | • | • | 8 | • | |
| HP 8x DVD+RW 400i Kit | HP 48x CD-RW Drive | • | • | • | • | • | 8 | | |
| Input/Output Devices (no spaceball support) HP 3-Button Mouse, PS/2 | | • | | | | | | | |
| HP 3-Button Mouse, PS/2 • • 8 • HP Scroll Mouse, PS/2 • • 8 • HP Optical Scroll Mouse, USB • • 8 • | | 4 | 4 | 4 | 4 | 4 | 4, 8 | | |
| HP 3-Button Mouse, PS/2 • • 8 • HP Scroll Mouse, PS/2 • • 8 • HP Optical Scroll Mouse, USB • • 8 • | Input/Output Devices (no spaceball support) | | | | | | | | |
| HP Optical Scroll Mouse, USB • • • 8 • 8 | | • | • | • | • | • | 8 | • | |
| | HP Scroll Mouse, PS/2 | • | • | • | • | • | 8 | • | |
| | HP Optical Scroll Mouse, USB | • | • | • | • | • | 8 | • | |
| | | • | • | • | • | • | 8 | • | |

footnote 1 - OS references in this matrix are part of the "HP Installer Kit for Linux" unless labeled as preinstall. The HP Installer and Driver CDs from the "HP Installer Kit for Linux" work in conjuction with Red Hat CDs (purchase separately) to add customizations for HP hardware. Check for updated ISO images- See footnote 3.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit and do mandatory download of web driver. See footnote 3.

footnote 3 - Get the latest drivers and "HP Installer CD for Red Hat Linux <7.2, 7.3, 8.0, 9>" and "HP Driver CD for Red Hat Enterprise Linux 3" ISO images from http://www.hp.com/support/xw4100; Select "download drivers and software"; Select OS; Select file. See www.hp.com/support/linux_user_manual -> 'Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs support for DVD+RW is available only on 32-bit Red Hat EL WS 3. Nero DVD+RW software is supported on RedHat 7.3, 8.0, 9, and EL WS 3. Drive kit is AMO only See footnote 2.

footnote 5 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABF Japan-English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AK6 Europe A4).

footnote 6 - 280 NVS PCI card may be used alone or with the 280 NVS AGP card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

footnote 7 - The OS CDs for 'Red Hat Enterprise Linux WS 3' are included with preinstalled systems. For systems ordered with the HP Installer Kit for Linux, purchase the OS separately as an AMO kit. The May 2004 'HP Driver CD for Red Hat Enterprise Linux WS 3' contains drivers which are compatible with both the Update1 and Update2 32-bit OS AMO kits. Order box set AMO kits from http://www.hp.com/workstations/ia32/options/software.html

footnote 8 - Red Hat 7.3 pre-install was discontinued at the end of Feb. 2004. This column is a reference for users upgrading system components.

footnote 9 - This component was supported, but is no longer orderable with new systems.

| | e Matrix for HP | | ns | | | | |
|--|------------------------------------|-------------|------------|-----------|-------------|-------------|------------|
| | w8000 Workstat tified with RHEL | | | | | | |
| This page is not complete witho | | | age of the | matrix). | | | |
| Product Items/Features | RHEL WS 3 | RHEL WS 3 | Red Hat 9 | Red Hat 8 | Red Hat 7.3 | Red Hat 7.3 | Red Hat 7. |
| (Blank box or unlisted means the component is NOT functional w/ as-is OS) HP Workstation Base System (no IEEE-1394 support) | U1 or later | pre-install | | | | pre-install | |
| | | | | | | | |
| Base system includes: Chassis, System Board, USB, cables, etc. | <u> </u> | • | • | • | • | 7 | • |
| Localization Kit (See footnote 5) | | | | | | | |
| HP Localization Kit | • | • | • | • | • | 2,7 | • |
| Operating Systems (See footnote 1) | | | | | | | |
| HP Installer CD for Red Hat Linux (May 2004) | | | 3 | 3 | 3 | | 3 |
| HP Driver CD for Red Hat Enterprise Linux WS 3 (May 2004) | 3 | | | | | | |
| 32-bit Red Hat Enterprise Linux WS 3 Preinstalled (Update 1 - May '04) | | <u> </u> | | | | | |
| Intel Pentium4/Xeon Processors | | | I | | ı | | 1 |
| All Supported Processors (1 & 2 CPU configs) | • | • | • | • | • | 7 | |
| Hyperthreading | • | • | • | | | | |
| Graphics Card (Video Card) (See footnote 3) | | | | | | - | |
| No Graphics Card | • | | • | | • | • | • |
| NVIDIA Entry 2D Graphics 32MB AGP | | | | | | | |
| NVIDIA Quadro4 200 NVS 64MB AGP | 8 | 8 | 8 | 8 | 8 | 8, 7 | 8 |
| NVIDIA Quadro NVS 280 64MB AGP | | | • | | | 2,7 | |
| NVIDIA Quadro NVS 280 64MB PCI | 2 | 2 | 2 | 2 | 2 | 2,7 | |
| NVIDIA Quadro NVS 400 128MB PCI | | | | | | | |
| NVIDIA Quadro4 380 XGL 64MB AGP | | • | • | • | | 2,7 | |
| ATI Fire GL T2-128 128MB AGP | | | • | | | 2,7 | |
| NVIDIA Quadro4 980 XGL 128MB AGP | | | | | | 2,7 | |
| ATI Fire GL Z1 3D 128MB AGP | 8 | 8 | 8 | 8 | 8 | 8, 7 | |
| ATI Fire GL X1 3D 256MB AGP | 8 | 8 | 8 | 8 | 8 | 8, 7 | |
| NVIDIA Quadro FX2000 128MB AGP | | | | | | 2,7 | |
| NVIDIA Quadro FX3000 256MB AGP | | | | | | 2,7 | |
| NVIDIA Quadro FX1100 128MB AGP | | | | | | 2,7 | |
| System RAM | | • | | • | | | |
| Minimum (MB) | 512 | 512 | 256 | 256 | 256 | 256 | 256 |
| Maximum | 12GB | 12GB | 8GB | 8GB | 8GB | 8GB | 3GB |
| Hard Disks (Preinstalled systems may only be ordered with one disk type: eith | | | | OOD | 000 | OOD | 300 |
| All Supported EIDE ATA Disk Drives | | Ι. | | | | 7 | |
| All Supported non-RAID SCSI Controllers | | | | | | | • |
| All Supported SCSI Disk Drives | • | | | • | | 7 | |
| • | - | • | • | • | • | 7 | |
| All Supported SATA Disk Drives | | | | | | | |
| HP Drive Key 128, 256MB Network Cards (no modem support) | • | • | | | | | |
| | | | l | 1 | | 1 | |
| Integrated LAN - (Broadcom 57x2,or Intel Pro) | • | • | • | • | • | • | • |
| Broadcom 5782 Card | • | • | • | • | • | 2,7 | |
| Intel Pro 1000 MT Removable CD/DVD Media | • | ٠. | | | • | 2,7 | |
| | | 1 | l | 1 | Ι | 1 | 1 |
| HP 48x CD-ROM Drive | - | • | • | • | • | 7 | · |
| HP 16x DVD-ROM Drive | • | • | • | • | • | 7 | • |
| HP 48x CD-RW Drive | • | • | • | • | • | 7 | |
| HP 48x DVD/CDRW Combo | • | | • | • | • | 7 | |
| HP 8x DVD+RW 400i Kit | 4 | 4 | 4 | 4 | 4 | 4, 7 | |
| Input/Output Devices (no spaceball support) | | | I | ı | | | 1 |
| HP 3-Button Mouse, PS/2 | | • | • | • | | 7 | |
| HP Scroll Mouse, PS/2 | | | • | | | 7 | |
| HP Optical Scroll Mouse, USB | | | | | | 7 | |
| All Supported Monitors | | | | | | 7 | |

footnote 1 - OS references in this matrix are part of the "HP Installer Kit for Linux" unless labeled as preinstall. The HP Installer and Driver CDs from the "HP Installer Kit for Linux" worl in conjunction with Red Hat CDs (purchase separately) to add customizations for HP hardware. Check for updated ISO images - See footnote 3.

footnote 2 - Not orderable integrated into systems. Order AMO (After Market Only) kit and do mandatory download of web driver. See footnote 3.

footnote 3 - Get the latest drivers and "HP Installer CD for Red Hat Linux <7.2, 7.3, 8.0, 8>* and "HP Driver CD for Red Hat Enterprise Linux 3" ISO images from http://www.hp.com/support/xw8000; Select "download drivers and software"; Select OS; Select file. See www.hp.com/support/linux_user_manual -> "Install Guide for Red Hat Linux on HP Linux Workstations'

footnote 4 - Linux growisofs support for DVD+RW is available only on 32-bit Red Hat EL WS 3. Nero DVD+RW software is supported on RedHat 7.3, 8.0, 9, and EL WS 3. Drive kit is AMO only. See footnote 2.

footnote 5 - Localization supported: (ABA US English, ABC French Canadian, ABD Germany, ABE Spain, ABF France, ABG Australia, ABU UK English, ABF Japan-English, ABJ Japan, AB2 China (PRC), AB4 Singapore/ Malaysia, ABZ Italy, AB5 Hong Kong, ACF Japan-English, ACJ India-English, AK6 Europe A4).

footnote 6 - The OS CDs for 'Red Hat Enterprise Linux WS 3' are included with preinstalled systems. For systems ordered with the HP Installer Kit for Linux, purchase the OS separately as an AMO kit. The May 2004 'HP Driver CD for Red Hat Enterprise Linux WS 3' contains drivers which are compatible with both the Update1 and Update2 32-bit OS AMO kits. Order box set AMO kits from http://www.hp.com/workstations/ia32/options/software.html

footnote 7 - Red Hat 7.3 pre-install was discontinued at the end of Feb. 2004. This column is a reference for users upgrading system components.

footnote 8 - This component was supported, but is no longer orderable with new systems.

HP xw6000 Workstation

Originally certified with RHEL 3 Update 1

This page is not complete without the General Notes (first page of the matrix).

| This page to the complete without | | | | | | | |
|--|--|--------------------------|--------------|-----------|------------------|----------------------------|--------------|
| Product Items/Features (Blank box or unlisted means the component is NOT functional w/ as-is OS) | RHEL WS 3 U1 or later | RHEL WS 3 pre-install | Red Hat 9 | Red Hat 8 | Red Hat 7.3 | Red Hat 7.3 pre-install | Red Hat 7.2 |
| HP Workstation Base System (no IEEE-1394 support) | OT OF Tater | pre-msidii | | | | pre-mstall | |
| Base system includes: Chassis, System Board, USB, cables, etc. | • | | | • | | 8 | |
| Localization Kit (See footnote 5) | | • | - | - | - | Ü | - |
| HP Localization Kit (See roomote 3) | | • | • | • | • | 2,8 | • |
| Operating Systems (See footnote 1) | t i | • | • | <u> </u> | | 2,0 | |
| HP Installer CD for Red Hat Linux (May 2004) | | | 3 | 3 | 3 | 1 | 3 |
| HP Driver CD for Red Hat Enterprise Linux WS 3 (May 2004) | 3 | | 3 | 3 | 3 | 1 | 3 |
| 32-bit Red Hat Enterprise Linux WS 3 Pre-installed (Update 1 - May 2004) | 3 | | | | | | |
| Intel Pentium4/Xeon Processors | | • | | | | | |
| | | 1 | 1 | 1 | 1 | | |
| All Supported Processors (1 & 2 CPU configs) | - : | • | • | • | • | 8 | • |
| Hyperthreading | <u> </u> | • | • | | | | |
| Graphics Card (Video Card) (See footnote 3) | | | | | | - | |
| No Graphics Card | • | • | • | • | • | • | • |
| NVIDIA Entry 2D Graphics 32MB AGP | 1 | ļ | | | | | |
| NVIDIA Quadro4 200 NVS 64MB AGP | 9 | 9 | 9 | 9 | 9 | 9, 8 | 9 |
| NVIDIA Quadro NVS 280 64MB AGP | • | • | • | • | • | 2,8 | • |
| NVIDIA Quadro NVS 280 64MB PCI | 6 | 6 | 6 | 6 | 6 | 6, 8 | |
| NVIDIA Quadro NVS 400 128MB PCI | | | | | | | |
| NVIDIA Quadro4 380 XGL 64MB AGP | • | • | • | • | • | 2,8 | |
| ATI FireGL T2-128 128MB AGP | • | • | • | • | • | 2,8 | |
| NVIDIA Quadro4 980 XGL 128MB AGP | • | • | • | • | • | 2,8 | |
| ATI Fire GL Z1 3D 128MB AGP | 9 | 9 | 9 | 9 | 9 | 9, 8 | |
| ATI Fire GL X1 3D 256MB AGP | 9 | 9 | 9 | 9 | 9 | 9, 8 | |
| NVIDIA Quadro FX2000 128MB AGP | • | • | • | • | • | 2,8 | |
| NVIDIA Quadro FX3000 256MB AGP | • | • | • | • | • | 2,8 | |
| NVIDIA Quadro FX1100 128MB AGP | • | • | • | • | • | 2,8 | |
| System RAM | | | | | | | |
| Minimum (MB) | 512 | 512 | 256 | 256 | 256 | 256 | 256 |
| Maximum | 8GB | 8GB | 8GB | 8GB | 8GB | 8GB | 4GB |
| Hard Disks (Preinstalled systems may only be ordered with one disk type: either \$ | SATA, SCSI, o | r IDE, not mixe | ed.) | | | | |
| All Supported EIDE ATA Disk Drives | • | • | • | • | • | 8 | • |
| All Supported non-RAID SCSI Controllers | • | • | • | • | • | 8 | • |
| All Supported SCSI Disk Drives | • | • | • | • | • | 8 | • |
| All Supported SATA Disk Drives | | | | | | | |
| HP Drive Key 128, 256MB | • | • | | | | | |
| Network Cards (no modem support) | | | | | | | |
| Integrated LAN - (Broadcom 57x2,or Intel Pro) | • | • | • | • | • | • | • |
| Broadcom 5782 Card | • | • | • | • | • | 2,8 | |
| Intel Pro 1000 MT | • | • | • | • | • | 2,8 | |
| Removable CD/DVD Media | | | | | | | |
| HP 48x CD-ROM Drive | | • | | • | • | 8 | |
| HP 16x DVD-ROM Drive | | • | • | • | • | 8 | • |
| HP 48x CD-RW Drive | • | • | • | • | • | 8 | |
| HP 48x DVD/CDRW Combo | | • | • | • | • | 8 | |
| HP 8x DVD+RW 400i Kit | 4 | 4 | 4 | 4 | 4 | 4, 8 | İ |
| Input/Output Devices (no spaceball support) | _ | _ | , - | _ | , - - | 7, 0 | 1 |
| HP 3-Button Mouse, PS/2 | | | | | | 8 | |
| HP Scroll Mouse, PS/2 | | • | • | • | • | 8 | • |
| HP Optical Scroll Mouse, USB | | | • | • | • | 8 | • |
| All Supported Monitors | - | • | • | • | | 8 | • |
| All oupported informore | | | | | | U | |

footnote 1 - OS references in this matrix are part of the "HP Installer Kit for Linux" unless labeled as preinstall. The HP Installer and Driver CDs form the "HP Installer Kit for Linux" work in conjunction with Red Hat CDs (purchase separately) to add customizations for HP hardware. Check for updated ISO images - See footnote 3.

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footnote 6 - 280 NVS PCI card may be used alone or with the 280 NVS AGP card. See instructions at http://hp.com/support/linux_user_manual -> 'Multi-Monitor Configurations on HP Linux Workstations'.

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